

## Appendix A. Requirements Trace

The Interim Release 1 (Ir1), TRMM Development (Release A) and AM-1 Development (Release B) Level 4 requirements listed in Table A-1 reflect the RTM requirements database RELB\_CDR\_030196. The Object Classes listed are from the CDR version of OMT and are described throughout this document., as are the CSCs , CIs and subsystem listed.

**Table A-1. Requirements Trace (1 of 82)**

L4 Rqmt ID	L4 Requirement Text	Object Class, CSC, or CI
C-MSS-00010	The MSS services at the SMC shall be configured to support the SMC function of Gathering and Disseminating System Management Information's Availability requirement of .998 and a mean down time of 20 minutes or less for critical services during times of staffed operation.	MHCI
C-MSS-00020	The MSS services shall have no single point of failure for functions associated with network databases and configuration data.	MHCI
C-MSS-00030	The MSS services shall be extensible in its design to provide capability for growth and enhancement.	MCI MLCI MACI MHCI
C-MSS-00200	The MSS services shall allocate 10% of development resources for IV&V activity.	MHCI
C-MSS-00500	The MSS shall have the capability to send EOS Long Term Science Plans to ASTER GDS.	EcExtSysIFB
C-MSS-00510	The MSS shall have the capability to send EOS Long Term Instrument Plans to ASTER GDS.	EcExtSysIFB
C-MSS-00520	The MSS shall have the capability to send schedule adjudication data to ASTER GDS.	EcExtSysIFB
C-MSS-00530	The MSS shall have the capability to receive schedule adjudication data from ASTER GDS.	EcExtSysIFB
C-MSS-00540	To the maximum extent, the MSS Human Machine Interface (HMI) shall be compatible with the ECS User Interface Style Guide (Version 5.1).	MCI MLCI
C-MSS-02000	The MSS-MHW CI Enterprise Monitoring Server shall be physically and functionally identical to the Enterprise Communications Server in supporting the CSMS requirements.	MHCI
C-MSS-02010	The MSS-MHW CI Enterprise Monitoring Server shall share data with the Local System Management Server in supporting the CSMS requirements.	MHCI

**Table A-1. Requirements Trace (2 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-02020	The MSS-MHW CI Enterprise Monitoring Server shall preserve DAAC autonomy of operations.	MHCI
C-MSS-02030	The MSS-MHW CI Enterprise Monitoring Server shall host the MSS software configuration items to create, with the Enterprise Communications Server and Management Workstations, an enterprise monitoring and coordination center for the ECS.	MHCI
C-MSS-02050	The MSS-MHCI shall be configured to support the SDPS function of receiving science data's Availability requirement of .999 and Mean Down Time requirement of 2 hours or less during times of staffed operation.	MHCI
C-MSS-02052	The MSS-MHCI shall be configured to support the SDPS function of Archiving and Distributing Data's Availability requirement of .98 and Mean Down Time requirement of < 2 hours during times of staffed operation.	MHCI
C-MSS-02054	The MSS-MHCI shall be configured to support the SDPS function of User Interfaces to Client, Interoperability, Data Server, and Data Management (IMS) services at Individual DAAC Site's availability requirement of .993 and a mean down time requirement of < 2 hours during times of staffed operations.	MHCI
C-MSS-02056	The MSS-MHCI shall be configured to support the SDPS function of information searches on the ECS directory's availability requirement of .993 and a mean down time requirement of < 2 hours during times of staffed operations.	MHCI
C-MSS-02058	The MSS-MHCI shall be configured to support the SDPS function of Metadata Ingest and Update's availability requirement of .96 and a mean down time requirement of < 4 hours during times of staffed operations.	MHCI
C-MSS-02060	The MSS-MHCI shall be configured to support the SDPS function of Information Searches On Local Holding's availability requirement of .96 and mean down time requirement of < 4 hours during times of staffed operations.	MHCI
C-MSS-02062	The MSS-MHCI shall be configured to support the SDPS function of Local Data Order Submission's availability requirement of .96 and a mean down time requirement of < 4 hours during times of staffed operations.	MHCI
C-MSS-02064	The MSS-MHCI shall be configured to support the SDPS function of Data Order Submission Across DAAC's availability requirement of .96 and a mean down time requirement of < 4 hours during times of staffed operations.	MHCI

**Table A-1. Requirements Trace (3 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-02066	The MSS-MHCI shall be configured to support the SDPS function of Client, Interoperability, Data Management and Data Server (IMS) Data Base Management and Maintenance Interface's availability requirement of .96 and a mean down time requirement of < 4 hours during times of staffed operations.	MHCI
C-MSS-02068	The MSS-MHCI elements and components shall include the on-line (operational mode) and off-line (test mode) fault detection and isolation capabilities required to achieve the specified operational availability requirements.	MHCI
C-MSS-02070	The maximum down time of the MSS-MHCI shall not exceed twice the required MDT in 99 percent of failure occurrences.	MHCI
C-MSS-02100	The MSS-MHW CI Enterprise Monitoring Server processor shall include a dedicated terminal to be used as a local systems operations console.	MHCI
C-MSS-02110	The MSS-MHW CI Enterprise Monitoring Server processor shall be capable of expansion with additional quantities and types of peripherals.	MHCI
C-MSS-02120	The MSS-MHW CI Enterprise Monitoring Server processor shall be upgradeable/replaceable within the same product family without major software modification or replacement of any peripheral or attached component.	MHCI
C-MSS-02130	The MSS-MHW CI Enterprise Monitoring Server processor shall have the capability to support a POSIX compliant IEEE 1003.1 operating system (UNIX).	MHCI
C-MSS-02140	The MSS-MHW CI Enterprise Monitoring Server processor terminal shall be compatible with the Management Workstation display device.	MHCI
C-MSS-02200	The MSS-MHW CI Enterprise Monitoring Server data storage shall be compatible with POSIX compliant operating systems from several vendors.	MHCI
C-MSS-02210	The MSS-MHW CI Enterprise Monitoring Server data storage shall be compatible with the Local System Management Server short-term data storage.	MHCI
C-MSS-02220	The MSS-MHW CI Enterprise Monitoring Server data storage shall support RAID level-5: striping with interleaved parity.	MHCI
C-MSS-02230	The MSS-MHW CI Enterprise Monitoring Server data storage shall have the following hot swappable components: a. Disks b. Power Supplies c. Fans d. Disk-array controllers	MHCI

**Table A-1. Requirements Trace (4 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-02240	The MSS-MHW CI Enterprise Monitoring Server data storage shall be cross-strapped with the Enterprise Communications Server data storage in supporting the CSMS requirements.	MHCI
C-MSS-02250	The MSS-MHW CI Enterprise Monitoring Server data storage shall be capable of archiving data to the ECS data server archive for data archive.	MHCI
C-MSS-02260	The MSS-MHW CI Enterprise Monitoring Server data archive shall adhere to ECS data server archival requirements for data storage and retrieval.	MHCI
C-MSS-02300	The MSS-MHW CI Enterprise Monitoring Server peripheral disk drives shall be capable of retrieving data stored from both the enterprise monitoring server data storage and data archive.	MHCI
C-MSS-02400	The MSS-MHW CI Enterprise Monitoring Server peripherals shall support at least one tape drive.	MHCI
C-MSS-02410	The MSS-MHW CI Enterprise Monitoring Server peripheral tape drive shall have the following characteristics: a. 4mm Digital Audio Tape format b. Accept industry standard magnetic 4mm DAT (i.e. DDS-90)	MHCI
C-MSS-02420	The MSS-MHW CI Enterprise Monitoring Server peripherals shall support at least one tape drive.	MHCI
C-MSS-02430	The MSS-MHW CI Enterprise Monitoring Server tape drives shall be upgradeable/replaceable within the same product family.	MHCI
C-MSS-02500	The MSS-MHW CI Enterprise Monitoring Server peripherals shall support at least one CD-ROM drive.	MHCI
C-MSS-02510	The MSS-MHW CI Enterprise Monitoring Server peripheral CD-ROM drive shall have the following characteristic: a. Accept 600MB Compact Disk	MHCI
C-MSS-02520	The MSS-MHW CI Enterprise Monitoring Server peripheral CD-ROM drives shall be upgradeable/replaceable within the same product family.	HardwareControlItem MHCI
C-MSS-02600	The MSS-MHW CI Local Management Server shall be physically and functionally identical to the Local Communications Server in supporting the CSMS requirements.	MHCI
C-MSS-02610	The MSS-MHW CI Local Management Server shall share data with the Enterprise Monitoring Server in supporting the CSMS requirements.	MHCI
C-MSS-02620	The MSS-MHW CI Local Management Server shall manage only the local DAAC and preserve other DAAC autonomy of operations.	MHCI

**Table A-1. Requirements Trace (5 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-02630	The MSS-MHW CI Local Management Server shall host the MSS software configuration items to create, with the Local Communications Server and Management Workstations, a local system management center for each ECS DAAC.	MHCI
C-MSS-02700	The MSS-MHW CI Local Management Server processor shall include a dedicated terminal to be used as a local systems operations console.	MHCI
C-MSS-02710	The MSS-MHW CI Local Management Server processor shall be capable of expansion with additional quantities and types of peripherals.	MHCI
C-MSS-02720	The MSS-MHW CI Local Management Server processor shall be upgradeable/replaceable within the same product family without major software modification or replacement of any peripheral or attached component.	MHCI
C-MSS-02730	The MSS-MHW CI Local Management Server processor shall have the capability to support a POSIX compliant IEEE 1003.1 operating system (UNIX).	MHCI
C-MSS-02740	The MSS-MHW CI Local Management Server processor terminal shall be compatible with the Management Workstation display device.	MHCI
C-MSS-02800	The MSS-MHW CI Local Management Server data storage shall be compatible with POSIX compliant operating systems from several vendors.	MHCI
C-MSS-02810	The MSS-MHW CI Local Management Server data storage shall be compatible with the Enterprise Monitoring Server intermediate-term data storage.	MHCI
C-MSS-02820	The MSS-MHW CI Local Management Server data storage shall support RAID level-5: striping with interleaved parity.	MHCI
C-MSS-02830	The MSS-MHW CI Local Management Server data storage shall have the following hot swappable components: a. Disks b. Power Supplies c. Fans d. Disk-array controllers	MHCI
C-MSS-02840	The MSS-MHW CI Local Management Server data storage shall be cross-strapped with the Local Communications Server short-term data storage in supporting the CSMS requirements.	MHCI
C-MSS-02850	The MSS-MHW CI Local Management Server data storage shall be capable of archiving data to the ECS Data Server archive for data archive.	MHCI
C-MSS-02860	The MSS-MHW CI Local Management Server data archive shall adhere to ECS Data Server archival requirements for data storage and retrieval.	MHCI

**Table A-1. Requirements Trace (6 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-02900	The MSS-MHW CI Local Management Server peripheral disk drives shall be capable of retrieving data stored from both the Local Management server data storage data archive.	MHCI
C-MSS-03000	The MSS-MHW CI Local Management Server peripherals shall support at least one tape drive.	MHCI
C-MSS-03010	The MSS-MHW CI Local Management Server peripheral tape drive shall have the following characteristics: a. 4mm Digital Audio Tape format b. Accept industry standard magnetic 4mm DAT (i.e. DDS-90)	MHCI
C-MSS-03020	The MSS-MHW CI Local Management Server peripheral tape drive shall have a data transfer rate of 200KB/sec.	MHCI
C-MSS-03030	The MSS-MHW CI Local Management Server tape drives shall be upgradeable/replaceable within the same product family.	MHCI
C-MSS-03100	The MSS-MHW CI Local Management Server peripherals shall support at least one CD-ROM drive.	MHCI
C-MSS-03110	The MSS-MHW CI Local Management Server peripheral CD-ROM drive shall have the following characteristic: a. Accept 600MB Compact Disk	MHCI
C-MSS-03120	The MSS-MHW CI Local Management Server peripheral CD-ROM drives shall be upgradeable/replaceable within the same product family.	MHCI
C-MSS-03200	All MSS-MHW CI Management Workstations and processors shall be capable of operating simultaneously and independently of other workstations and management/communications servers.	MHCI
C-MSS-03300	At a minimum, each MSS-MHW CI processor shall have the capability to support a POSIX compliant IEEE 1003.1 operating system (UNIX).	MHCI
C-MSS-03310	Each MSS-MHW CI Management Workstation shall provide one QWERTY keyboard.	MHCI
C-MSS-03320	Each Management Workstation keyboard shall be detachable and cabled for movement on a desk-top style workstation area.	MHCI
C-MSS-03330	Each Management Workstation keyboard shall provide a minimum of 12 programmable function keys.	MHCI
C-MSS-03340	Each MSS-MHW CI Management Workstation shall provide one color text and graphics display device.	MHCI
C-MSS-03350	The MSS-MHW CI display driver device shall display the complete ASCII character set.	MHCI

**Table A-1. Requirements Trace (7 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-03360	The MSS-MHW CI display driver device shall provide a minimum of 1024 pixel x 864 lines resolution display.	MHCI
C-MSS-03370	The MSS-MHW CI display driver device shall display a minimum of 16 colors.	MHCI
C-MSS-03380	The MSS-MHW CI display driver device shall display pages 24 lines by 80 characters wide.	MHCI
C-MSS-03390	The MSS-MHW CI display driver device shall display a minimum of four screen display pages.	MHCI
C-MSS-03400	The MSS-MHW CI display driver device shall display pages readable from any location along the width of the workstation and up to a distance of 6 feet from the screen.	MHCI
C-MSS-03410	The MSS-MHW CI display driver device shall provide a minimum of 19 inches diagonal non-glare screen.	MHCI
C-MSS-03420	The MSS-MHW CI display driver device shall provide RGB video output for hard copy.	MHCI
C-MSS-03430	The MSS-MHW CI display driver device shall provide feature an integral swivel/tilt base.	MHCI
C-MSS-03440	The MSS-MHW CI display driver device shall provide brightness, contrast and power controls within easy reach.	MHCI
C-MSS-03450	The MSS-MHW CI display driver device shall display the complete ASCII character set.	MHCI
C-MSS-03460	The MSS-MHW CI Management Workstation shall provide one cursor pointing device (mouse).	MHCI
C-MSS-03470	The MSS-MHW CI Management Workstation shall be upgradeable/replaceable within the same product family.	MHCI
C-MSS-03500	The MSS-MHW CI Management Workstation data storage shall be capable of retrieving data from the data storage function of both the Enterprise Monitoring Server and the Local Management Server.	MHCI
C-MSS-03600	All MSS-MHW CI Management Workstation disk drives serving a specific function (e.g. local management, enterprise monitoring) shall be identical and will have equal capacity.	MHCI
C-MSS-03700	Each MSS-MHW CI Printer shall be physically and functionally identical in supporting the CSMS printing requirements.	MHCI
C-MSS-03710	Each printer shall have a print density of at least 300 dpi.	MHCI

**Table A-1. Requirements Trace (8 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-03800	The MSS-MHW CI Enterprise Monitoring Server shall be capable of 100 percent growth in the processing speed specified in Appendix A of the current version of 304-CD-005 without modifications or upgrades to software.	MHCI
C-MSS-03810	The MSS-MHW CI Enterprise Monitoring Server shall be capable of 100 percent growth in the storage capacity specified in Appendix A of the current version of 304-CD-005 without modifications or upgrades to software.	MHCI
C-MSS-03820	The MSS-MHW CI Local Management Server shall be capable of 100 percent growth in the processing speed specified in Appendix A of the current version of 304-CD-005 without modifications or upgrades to software.	MHCI
C-MSS-03830	The MSS-MHW CI Local Management Server shall be capable of 100 percent growth in the storage capacity specified in Appendix A of the current version of 304-CD-005 without modifications or upgrades to software.	MHCI
C-MSS-03840	The MSS-MHW CI Enterprise Monitoring Server shall be capable of meeting the capacity and performance characteristics of Appendix A of the current version of 304-CD-005.	MHCI
C-MSS-03850	The MSS-MHW CI Local Management Server shall be capable of meeting the capacity and performance characteristics of Appendix A of the current version of 304-CD-005 for all DAAC configurations.	MHCI
C-MSS-03860	The MSS-MHW CI Management Workstation shall be capable of meeting the capacity and performance characteristics of Appendix A of the current version of 304-CD-005.	MHCI
C-MSS-03900	The MSS-MHW CI hardware selection criteria shall meet overall ECS security policies and system requirements.	MHCI
C-MSS-04000	The MSS-MHW CI Enterprise Monitoring Server shall maintain one backup of all software and key data items in a separate physical location.	MHCI
C-MSS-04010	The MSS-MHW CI Local Management Server shall maintain one backup of all software and key data items in a separate physical location.	MHCI
C-MSS-04020	The MSS-MHW CI functional string between the Enterprise Monitoring Server and the Local Management Server shall provide a function Ao (operational availability) of 0.998 and an MDT of 20 minutes.	MHCI
C-MSS-04030	The MSS-MHW CI functional string between the Local Management Server and ECS managed objects shall provide a function Ao of 0.998 and an MDT of 20 minutes.	MHCI



**Table A-1. Requirements Trace (9 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-05200	The GSFC LSM shall provide a MSS-MHW CI Local Management Server.	MHCI
C-MSS-05210	The GSFC LSM MSS-MHW CI Local Management Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-05220	The GSFC LSM shall provide a MSS-MHW CI Local Communications Server.	MHCI
C-MSS-05230	The GSFC LSM MSS-MHW CI Local Communications Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-05240	The GSFC LSM MSS-MHW CI Local Communications Server shall provide storage that is cross-strapped with the Local Management Server.	MHCI
C-MSS-05250	The GSFC LSM shall provide one MSS-MHW CI Data Storage Unit supporting RAID level 5 cross strapped between the local management and local communications servers.	MHCI
C-MSS-05260	The GSFC LSM shall provide two (2) MSS-MHW CI Management Workstations, which can perform any GSFC LSM function.	MHCI
C-MSS-05270	The GSFC LSM shall provide a MSS-MHW CI system printer.	MHCI
C-MSS-05280	The GSFC LSM shall provide a MSS-MHW CI dot-matrix printer.	MHCI
C-MSS-05290	The GSFC infrastructure shall provide a GSFC MSS-MHW CI LAN.	MHCI
C-MSS-05300	The GSFC EMC shall provide an MSS-MHW CI enterprise monitoring server, enterprise communications server, four (4) Management Workstations, one (1) printer, and bulletin board server transferred from the IR-1 EDF.	MHCI
C-MSS-05310	The GSFC EMC shall provide, via the ECS data server, MSS-MHW CI Enterprise Monitoring Server long-term data storage capability.	MHCI
C-MSS-05320	The GSFC EMC shall provide a MSS-MHW CI dot-matrix printer.	MHCI
C-MSS-05400	The EOC LSM shall provide a MSS-MHW CI Local Management Server.	MHCI
C-MSS-05410	The EOC LSM MSS-MHW CI Local Management Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI

**Table A-1. Requirements Trace (10 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-05420	The EOC LSM MSS-MHW CI Local Management Servers shall provide storage that is cross-strapped with the Local Communications Server.	MHCI
C-MSS-05430	The EOC LSM shall provide a MSS-MHW CI Local Communications Server.	MHCI
C-MSS-05440	The EOC LSM MSS-MHW CI Local Communications Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-05450	The EOC LSM MSS-MHW CI Local Communications Server shall provide storage that is cross-strapped with the Local Management Server.	MHCI
C-MSS-05460	The EOC LSM shall provide one MSS-MHW CI Data Storage Unit supporting RAID level 5 cross strapped between the local management and local communications servers.	MHCI
C-MSS-05470	The EOC LSM shall provide two (2) MSS-MHW CI Management Workstations, which can perform any EOC LSM function.	MHCI
C-MSS-05480	The EOC LSM shall provide a MSS-MHW CI system printer.	MHCI
C-MSS-05490	The EOC LSM shall provide a MSS-MHW CI dot-matrix printer.	MHCI
C-MSS-05500	The EOC infrastructure shall provide one EOC MSS-MHW CI LAN.	MHCI
C-MSS-05600	The MSFC LSM shall provide a MSS-MHW CI Local Management Server.	MHCI
C-MSS-05610	The MSFC LSM MSS-MHW CI Local Management Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-05620	The MSFC LSM shall provide a MSS-MHW CI Local Communications Server.	MHCI
C-MSS-05630	The MSFC LSM MSS-MHW CI Local Communications Servers shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-05640	The MSFC LSM MSS-MHW CI Local Communications Servers shall provide storage that is cross-strapped with the Local Management Server.	MHCI
C-MSS-05650	The MSFC LSM shall provide a MSS-MHW CI Data Storage Unit supporting RAID level 5 cross strapped between the local management and local communications servers.	MHCI

**Table A-1. Requirements Trace (11 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-05660	The MSFC LSM shall provide two (2) MSS-MHW CI Management Workstations, which can perform any MSFC LSM function.	MHCI
C-MSS-05670	The MSFC LSM shall provide a MSS-MHW CI system printer.	MHCI
C-MSS-05680	The MSFC LSM shall provide a MSS-MHW CI dot-matrix printer.	MHCI
C-MSS-05690	The MSFC infrastructure shall provide one MSFC MSS-MHW CI LAN.	MHCI
C-MSS-05800	The LaRC LSM shall provide a MSS-MHW CI Local Management Server.	MHCI
C-MSS-05810	The LaRC LSM MSS-MHW CI Local Management Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-05820	The LaRC LSM shall provide a MSS-MHW CI Local Communications Server.	MHCI
C-MSS-05830	The LaRC LSM MSS-MHW CI Local Communications Servers shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-05840	The LaRC LSM MSS-MHW CI Local Communications Server shall provide storage that is cross-strapped with the Local Management Server.	MHCI
C-MSS-05850	The LaRC LSM shall provide one MSS-MHW CI Data Storage Unit supporting RAID level 5 cross strapped between the local management and local communications servers.	MHCI
C-MSS-05860	The LaRC LSM shall provide two (2) MSS-MHW CI Management Workstations, which can perform any LaRC LSM function.	MHCI
C-MSS-05870	The LaRC LSM shall provide 1 MSS-MHW CI system printer.	MHCI
C-MSS-05880	The LaRC LSM shall provide a MSS-MHW CI dot-matrix printer.	MHCI
C-MSS-05890	The LaRC infrastructure shall provide a LaRC MSS-MHW CI LAN.	MHCI
C-MSS-06000	The EDC LSM shall provide a MSS-MHW CI Local Management Server.	MHCI
C-MSS-06010	The EDC LSM MSS-MHW CI Local Management Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI

**Table A-1. Requirements Trace (12 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-06020	The EDC LSM shall provide a MSS-MHW CI Local Communications Server.	MHCI
C-MSS-06030	The EDC LSM MSS-MHW CI Local Communications Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-06040	The EDC LSM MSS-MHW CI Local Communications Server shall provide storage that is cross-strapped with the Local Management Server.	MHCI
C-MSS-06050	The EDC LSM shall provide a MSS-MHW CI Data Storage Unit supporting RAID level 5 cross strapped between the local management and local communications servers.	MHCI
C-MSS-06060	The EDC LSM shall provide two (2) MSS-MHW CI Management Workstations, which can perform any EDC LSM function.	MHCI
C-MSS-06070	The EDC LSM shall provide a MSS-MHW CI system printer.	MHCI
C-MSS-06080	The EDC LSM shall provide a MSS-MHW CI system printer.	MHCI
C-MSS-06090	The EDC infrastructure shall provide an EDC MSS-MHW CI LAN.	MHCI
C-MSS-06200	The JPL LSM shall provide a MSS-MHW CI Local Management Server.	MHCI
C-MSS-06210	The JPL LSM MSS-MHW CI Local Management Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-06220	The JPL LSM shall provide a MSS-MHW CI Local Communications Server.	MHCI
C-MSS-06230	The JPL LSM MSS-MHW CI Local Communications Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-06240	The JPL LSM MSS-MHW CI Local Communications Server shall provide storage that is cross-strapped with the Local Management Server.	MHCI
C-MSS-06250	The JPL LSM shall provide a MSS-MHW CI Data Storage Unit supporting RAID level 5 cross strapped between the local management and local communications servers.	MHCI
C-MSS-06260	The JPL LSM shall provide two (2) MSS-MHW CI Management Workstations, which can perform any EOC LSM function.	MHCI
C-MSS-06270	The JPL LSM shall provide a MSS-MHW CI system printer.	MHCI
C-MSS-06280	The JPL LSM shall provide a MSS-MHW CI dot-matrix printer.	MHCI

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-06290	The JPL infrastructure shall provide a JPL MSS-MHW CI LAN.	MHCI
C-MSS-06400	The SMC LSM shall provide a MSS-MHW CI Local Management Server.	MHCI
C-MSS-06410	The SMC LSM MSS-MHW CI Local Management Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-06420	The SMC LSM shall provide a MSS-MHW CI Local Communications Server.	MHCI
C-MSS-06430	The SMC LSM MSS-MHW CI Local Communications Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-06440	The SMC LSM MSS-MHW CI Local Communications Server shall provide storage that is cross-strapped with the Local Management Server.	MHCI
C-MSS-06450	The SMC LSM shall provide a MSS-MHW CI Data Storage Unit supporting RAID level 5 cross strapped between the local management and local communications servers.	MHCI
C-MSS-06460	The SMC LSM shall provide two (2) MSS-MHW CI Management Workstations, which can perform any EOC LSM function.	MHCI
C-MSS-06470	The SMC LSM shall provide a MSS-MHW CI system printer.	MHCI
C-MSS-06480	The SMC LSM shall provide a MSS-MHW CI dot-matrix printer.	MHCI
C-MSS-06490	The SMC EMC shall provide an MSS-MHW CI enterprise monitoring server, enterprise communications server, accounting and billing server, four (4) Management Workstations, printer, dot-matrix printer, and bulletin board server.	MHCI
C-MSS-06500	The SMC EMC shall provide, via the ECS data server, a MSS-MHW CI Enterprise Monitoring Server long-term data storage capability.	MHCI
C-MSS-06510	The SMC EMC shall provide, via the ECS data server, an MSS-MHW CI accounting and billing server long-term data storage capability.	MHCI
C-MSS-06600	The NSIDC LSM shall provide a MSS-MHW CI Local Management Server.	MHCI
C-MSS-06610	The NSIDC LSM MSS-MHW CI Local Management Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI

**Table A-1. Requirements Trace (14 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-06620	The NSIDC LSM shall provide a MSS-MHW CI Local Communications Server.	MHCI
C-MSS-06630	The NSIDC LSM MSS-MHW CI Local Communications Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-06640	The NSIDC LSM MSS-MHW CI Local Communications Server shall provide storage that is cross-strapped with the Local Management Server.	MHCI
C-MSS-06650	The NSIDC LSM shall provide one MSS-MHW CI local management and local communications server.	MHCI
C-MSS-06660	The NSIDC LSM shall provide two (2) MSS-MHW CI Management Workstations, which can perform any EOC LSM function.	MHCI
C-MSS-06670	The NSIDC LSM shall provide a MSS-MHW CI system printer.	MHCI
C-MSS-06680	The NSIDC LSM shall provide a MSS-MHW CI dot-matrix printer.	MHCI
C-MSS-06690	The NSIDC infrastructure shall provide a NSIDC MSS-MHW CI LAN.	MHCI
C-MSS-06800	The ASF LSM shall provide a MSS-MHW CI Local Management Server.	MHCI
C-MSS-06810	The ASF LSM MSS-MHW CI Local Management Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-06820	The ASF LSM shall provide a MSS-MHW CI Local Communications Server.	MHCI
C-MSS-06830	The ASF LSM MSS-MHW CI Local Communications Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-06840	The ASF LSM MSS-MHW CI Local Communications Server shall provide storage that is cross-strapped with the Local Management Server.	MHCI
C-MSS-06850	The ASF LSM shall provide a MSS-MHW CI Data Storage Unit supporting RAID level 5 cross strapped between the local management and local communications servers.	MHCI
C-MSS-06860	The ASF LSM shall provide two (2) MSS-MHW CI Management Workstations, which can perform any LSM function.	MHCI
C-MSS-06870	The ASF LSM shall provide a MSS-MHW CI system printer.	MHCI

**Table A-1. Requirements Trace (15 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-06880	The ASF LSM shall provide a MSS-MHW CI dot-matrix printer.	MHCI
C-MSS-06890	The ASF infrastructure shall provide a ASF MSS-MHW CI LAN.	MHCI
C-MSS-07000	The ORNL LSM shall provide a MSS-MHW CI Local Management Server.	MHCI
C-MSS-07010	The ORNL LSM MSS-MHW CI Local Management Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-07020	The ORNL LSM shall provide a MSS-MHW CI Local Communications Server.	MHCI
C-MSS-07030	The ORNL LSM MSS-MHW CI Local Communications Server shall be configured with fixed disk, tape drive, and CD-ROM drive storage devices.	MHCI
C-MSS-07040	The ORNL LSM MSS-MHW CI Local Communications Server shall provide storage that is cross-strapped with the Local Management Server.	MHCI
C-MSS-07050	The ORNL LSM shall provide a MSS-MHW CI Data Storage Unit supporting RAID level 5 cross strapped between the local management and local communications servers.	MHCI
C-MSS-07060	The ORNL LSM shall provide two (2) MSS-MHW CI Management Workstations, which can perform any EOC LSM function.	MHCI
C-MSS-07070	The ORNL LSM shall provide a MSS-MHW CI system printer.	MHCI
C-MSS-07080	The ORNL LSM shall provide a MSS-MHW CI dot-matrix printer.	MHCI
C-MSS-07090	The ORNL infrastructure shall provide an ORNL MSS-MHW CI LAN.	MHCI
C-MSS-10010	The MSS shall interface with the Ecom systems to exchange data identified in Table 5.1-1 as specified in the ECS/Ecom IRD.	MHCI
C-MSS-10020	The MSS shall interface with the Version 0 system to exchange data identified in Table 5.1-1 as specified in the ECS/V0 IRD, 194-219-SE1-004.	MHCI
C-MSS-10030	The MSS shall interface with the Science Computing Facility (SCF) to exchange data identified in Table 5.1-1 as specified in ECS/SCF IRD, 194-219-SE1-005.	MHCI
C-MSS-10040	The MSS shall interface with the NASA Institutional Support System (NISS) to exchange data identified in Table 5.1-1 as specified in ECS/NISS IRD, 194-219-SE1-020.	MHCI

**Table A-1. Requirements Trace (16 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-10050	The MSS shall interface with the Affiliated Data Centers (ADC) to exchange data identified in Table 5.1-1 as specified in ECS/ADC IRD, 219-CD-006.	MHCI
C-MSS-10060	The MSS shall interface with the Tropical Rainfall Measuring Mission (TRMM) to exchange data identified in Table 5.1-1 as specified in ECS/TRMM IRD, 194-219-SE1-018.	MHCI
C-MSS-10070	The MSS shall interface with the Landsat 7 System to exchange data identified in Table 5.1-1 as specified in ECS/Landsat 7 IRD, 219-CD-003.	MHCI
C-MSS-10080	The MSS shall interface with the NASA Science Internet (NSI) to exchange data identified in Table 5.1-1 as specified in ECS/NSI IRD, 194-219-SE1-001.	MHCI
C-MSS-10090	The MSS shall interface with the Program Support Communications Network (PSCN) to exchange data identified in Table 5.1-1 as specified in ECS/PSCN IRD, 193-219-SE1-008.	MHCI
C-MSS-10100	The MSS shall interface with the EDOS to exchange data identified in Table 5.1-1 as specified in EDOS/EGS IRD, 560-EDOS-0211.	MHCI
C-MSS-10110	The MSS shall interface with the International Partners (IP) for Data Interoperability to exchange data identified in Table 5.1-1 as specified in ECS/IP IRD, 194-219-SE1-015.	MHCI
C-MSS-10200	The MSS shall interface with the SDPS subsystems to exchange the data items in Table 5.1-2 as specified in the ECS internal ICDs, 313-DV3-003.	MHCI
C-MSS-10300	The MSS shall interface with the FOS subsystems to exchange the data items in Table 5.1-3 as specified in the ECS internal ICDs, 313-DV3-003.	MHCI
C-MSS-10400	The MSS at a site shall interface with the MSS subsystems at the SMC and other sites to exchange management data items in Table 5.1-4.	MHCI
C-MSS-10410	The MSS shall interface with the CSS subsystems to exchange the data items in Table 5.1-5 as specified in the ECS internal ICDs, 313-DV3-003.	MHCI
C-MSS-10420	The MSS shall interface with the ISS subsystems to exchange the data items in Table 5.1-6 as specified in the ECS internal ICDs, 313-DV3-003.	MHCI
C-MSS-12005	The MSS Management User Interface (MUI) Service shall be compatible with the ECS management framework.	ManagementFramework MCI
C-MSS-12010	The MSS Management User Interface (MUI) Service shall provide a graphical user interface that is OSF/MOTIF compliant	ManagementFramework MCI



**Table A-1. Requirements Trace (17 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-12020	The MSS MUI Service shall have the capability to respond to keyboard and mouse input devices	EnterpriseFramework ManagementFramework MCI
C-MSS-12030	The MSS MUI Service shall provide a capability for the M&O Staff to add/delete a symbol and to modify a symbol's shape, color and position	ManagementFramework MCI
C-MSS-12040	The MSS MUI Service shall provide a capability for an application to add/delete a symbol and to modify a symbol's shape, color and position	MCI ManagementFramework
C-MSS-12050	The MSS MUI Service shall provide a capability for the M&O Staff to add, delete, and modify text strings	ManagementFramework MCI
C-MSS-12060	The MSS MUI Service shall provide a capability for an application to add, delete, and modify text strings	ManagementFramework MCI
C-MSS-12070	The MSS MUI Service shall have the capability to provide options and methods to the M&O Staff for screen configuration changes (color, symbol placement, etc) and for retaining the changes from session to session	MCI ManagementFramework
C-MSS-12080	The MSS MUI Service shall provide a capability for applications to alert the M&O Staff	MCI ManagementFramework
C-MSS-12090	The MSS MUI Service shall provide a capability for applications to establish a dialog session with the M&O Staff	ManagementFramework MCI
C-MSS-12100	The MSS MUI Service shall provide a capability for the M&O Staff to load and unload vendor or ECS defined MIB.	ManagementFramework MCI
C-MSS-12110	The MSS MUI Service shall provide a capability for applications to load and unload vendor or ECS defined MIB.	ManagementFramework MCI
C-MSS-12120	The MSS MUI Service shall provide a capability for the operator to browse MIB values.	MCI ManagementFramework
C-MSS-12130	The MSS MUI Service shall provide the capability for the M&O Staff to register and unregister managed objects.	MCI ManagementFramework
C-MSS-12140	The MSS MUI Service shall provide the capability for an application to register and unregister managed objects.	ManagementFramework MCI
C-MSS-12170	The MSS MUI Service shall provide the capability to register and unregister management applications.	MCI ManagementFramework
C-MSS-12180	The MSS MUI Service shall provide the capability for an application to display on-line help windows	ManagementFramework MCI
C-MSS-14010	The MSS Maps/Collection Service shall retain the status of managed objects and their relationship to symbols that comprise a graphical representation of the physical network topology.	ManagementFramework

**Table A-1. Requirements Trace (18 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-14020	The MSS Map/Collection Service shall provide a capability to define maps and objects.	ManagementFramework
C-MSS-14030	The MSS Map/Collection Service shall provide a capability to define a hierarchical relationship between maps and sub-maps (i.e., a graphical hierarchical tree)	ManagementFramework
C-MSS-14040	The MSS Map/Collection Service shall propagate events associated with objects up the hierarchical tree	ManagementFramework
C-MSS-16005	The ECS management protocol shall be the SNMP standard as specified in RFC 1157.	ManagementFramework
C-MSS-16010	MSS Monitor/Control Service shall communicate via ECS management protocol with the Management Agent Service in test or operational mode.	ManagementFramework
C-MSS-16020	The MSS Monitor/Control Service shall communicate via ECS management protocol with the MSS Management Agent Service to request management data on a managed object.	ManagementFramework EnterpriseFramework ManagementAgent
C-MSS-16030	The MSS Monitor/Control Service shall be able to communicate via ECS management protocol with the MSS Management Agent Service to send ECS management set messages to configure and control the processing performed by the ECS management agent.	ManagementAgent ManagementFramework
C-MSS-16040	The MSS Monitor/Control Service shall communicate via ECS management protocol with the MSS Management Agent Service to receive ECS management traps/events.	ManagementAgent ManagementFramework
C-MSS-16050	The MSS Monitor/Control Service shall allow customized M&O staff-event notifications and automatic actions.	ManagementFramework EnterpriseFramework
C-MSS-16060	The MSS Monitor/Control Service shall allow the capability to set thresholds on managed resources that are monitored	ManagementFramework EnterpriseFramework
C-MSS-16070	The MSS Monitor/Control Service shall automatically report when a threshold has been exceeded by generating a ECS management event	ManagementAgent EnterpriseFramework ManagementFramework
C-MSS-16100	The MSS Monitor/Control Service shall perform the following protocol test on managed network nodes:a._IP testb._TCP testc._SNMP testd._UDP teste._ICMP test	ManagementFramework
C-MSS-16110	The MSS monitor/control service shall provide APIs to provide the capability for management data exchange with management applications.	ManagementFramework EnterpriseFramework
C-MSS-18040	The MSS Management Data Access Service shall maintain the integrity of the management database.	MsMdManager
C-MSS-18050	The MSS Management Data Access Service's shall utilize CSS Services to access/transfer management data.	MsMdManager

**Table A-1. Requirements Trace (19 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-18060	The Management Data Access Service shall provide the capability for an application to access management data.	ManagementRDBMS
C-MSS-18070	The MSS Management Data Access Service shall provide the capability to selectively access management data.	MsMdUserInterface
C-MSS-18200	The MSS Management Data Access Service shall provide the capability for an application via APIs to update fields in the management database.	MsMdManager
C-MSS-18220	The MSS Management Data Access Service shall provide the capability for an application via APIs to alter tables and fields in the management database.	ManagementRDBMS
C-MSS-18260	The MSS Management Data Access Service shall have the capability to schedule the transfer and loading log files into the management database at the site.	MsMdManager
C-MSS-18270	The MSS Management Data Access Service shall have the capability to schedule the archiving of log files at the site.	MsMdManager
C-MSS-18280	The MSS Management Data Access Service shall have the capability to schedule the transfer of management data at the sites to the SMC.	MsMdManager
C-MSS-18330	The MSS Management Data Access Service shall provide the capability for an applications to append records to a log file.	EcAgEvent
C-MSS-18340	The MSS Management Data Access Service shall provide the capability for an application to selectively read a record from a log file	MsMdUserInterface
C-MSS-18350	The MSS Management Data Access Service shall provide the capability for an application to load log files into the management database at the site	MsMdManager
C-MSS-18360	The MSS Management Data Access Service shall provide the capability for the M&O staff to load log files into the management database at the site.	MsMdUserInterface
C-MSS-20010	The MSS Discovery Service shall discover (via network protocol) new instances of managed objects.	ManagementFramework
C-MSS-20020	The MSS Discovery Service shall detect missing occurrences of managed objects.	ManagementFramework
C-MSS-20030	The MSS Discovery Service shall report missing occurrences of managed objects.	ManagementFramework
C-MSS-20040	The MSS Discovery Service shall update the object database after the Discovery Service receives a request to register/unregister a managed object.	ManagementFramework
C-MSS-36010	The MSS Management Agent Service shall retrieve data from ECS managed objects in test or operational mode.	MsAgSubAgent EcAgManager

**Table A-1. Requirements Trace (20 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-36020	The MSS Management Agent Service shall communicate via ECS management protocol with the MSS Monitor/Control Service to respond to requests for managed object MIB attributes	MsAgAgent
C-MSS-36040	The MSS Management Agent Service shall communicate via ECS management protocol with the MSS Monitor/Control Service to send ECS management traps/events to the Monitor/Control Service.	EcAgEvent
C-MSS-36042	The MSS management agent service shall send ECS management traps/events to the management server using a reliable notification mechanism.	MsAgDeputy
C-MSS-36045	The MSS management agent service shall send ECS management traps/events to the management server using a secure notification mechanism.	MsAgDeputy
C-MSS-36050	The MSS Management Agent Service shall communicate via ECS management protocol with the MSS Monitor/Control Service to receive ECS management set message from the Monitor/Control Service.	MsAgDeputy
C-MSS-36052	The MSS management agent service shall receive ECS management set messages from the management server using a reliable mechanism.	MsAgDeputy
C-MSS-36055	The MSS management agent service shall receive ECS management set messages from the management server using a secure mechanism.	MsAgDeputy
C-MSS-36060	The MSS Management Agent Service shall provide an ECS management agent that is configurable to include: a._Community to respond to and set attributes b._Agent location & contact person c._Traps to send d._Events to log & log file name	MsAgAgent
C-MSS-36070	The MSS Management Agent Service shall provide an ECS management agent for network devices	MsAgEncps
C-MSS-36080	The MSS Management Agent Service shall provide an extensible ECS management agent for ECS Host systems	MsAgAgent
C-MSS-36090	The MSS Management Agent Service shall provide an extensible ECS management agent for ECS applications	MsAgSubAgent
C-MSS-36100	The MSS Management Agent Service shall provide proxy agents for ECS network devices and applications that cannot be managed via SNMP.	EcAgProxy
C-MSS-36110	The MSS Management Agent Service shall provide an ECS domain manager agent to coordinate and communicate with multiple ECS management agents.	MsAgAgent
C-MSS-36215	The Management Agent Service shall have the capability to receive event notification from the CLS.	EcAgEvent

**Table A-1. Requirements Trace (21 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-36300	The Management Agent Service shall have the capability to receive processing status from the IOS.	MsAgSubAgent
C-MSS-36305	The Management Agent Service shall have the capability to receive current mode from the IOS.	MsAgSubAgent
C-MSS-36310	The Management Agent Service shall have the capability to receive detected hardware and software fault information from the IOS.	MsAgSubAgent
C-MSS-36320	The Management Agent Service shall have the capability to receive event notification from the IOS.	EcAgEvent
C-MSS-36325	The Management Agent Service shall have the capability to receive resource utilization data from the IOS.	MsAgSubAgent
C-MSS-36330	The Management Agent Service shall have the capability to send life cycle commands to the IOS.	EcAgManager
C-MSS-36335	The Management Agent Service shall have the capability to send mode requests to the IOS.	EcAgManager
C-MSS-36350	The Management Agent Service shall have the capability to receive processing status from the DMS.	MsAgMonitor
C-MSS-36355	The Management Agent Service shall have the capability to receive current mode from the DMS.	EcAgManager
C-MSS-36360	The Management Agent Service shall have the capability to receive detected hardware and software fault information from the DMS.	MsAgSubAgent
C-MSS-36365	The Management Agent Service shall have the capability to receive event notification from the DMS.	EcAgEvent
C-MSS-36370	The Management Agent Service shall have the capability to receive resource utilization data from the DMS.	MsAgSubAgent
C-MSS-36375	The Management Agent Service shall have the capability to send life cycle commands to the DMS.	EcAgManager
C-MSS-36380	The Management Agent Service shall have the capability to send mode requests to the DMS.	EcAgManager
C-MSS-36400	The Management Agent Service shall have the capability to receive processing status from the PLS.	MsAgMonitor
C-MSS-36405	The Management Agent Service shall have the capability to receive current mode from the PLS.	EcAgManager
C-MSS-36410	The Management Agent Service shall have the capability to receive detected hardware and software fault information from the PLS.	MsAgSubAgent
C-MSS-36415	The Management Agent Service shall have the capability to receive event notification from the PLS.	EcAgEvent

**Table A-1. Requirements Trace (22 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-36420	The Management Agent Service shall have the capability to receive resource utilization data from the PLS.	MsAgSubAgent
C-MSS-36435	The Management Agent Service shall have the capability to send life cycle commands to the PLS.	EcAgManager
C-MSS-36440	The Management Agent Service shall have the capability to send mode requests to the PLS.	EcAgManager
C-MSS-36450	The Management Agent Service shall have the capability to receive processing status from the DPS.	MsAgMonitor
C-MSS-36455	The Management Agent Service shall have the capability to receive current mode from the DPS.	EcAgManager
C-MSS-36460	The Management Agent Service shall have the capability to receive detected hardware and software fault information from the DPS.	MsAgSubAgent
C-MSS-36465	The Management Agent Service shall have the capability to receive accounting/resource accountability data from the DPS.	EcAgProxy
C-MSS-36470	The Management Agent Service shall have the capability to receive resource utilization data from the DPS.	MsAgSubAgent
C-MSS-36480	The Management Agent Service shall have the capability to send life cycle commands to the DPS.	EcAgManager
C-MSS-36485	The Management Agent Service shall have the capability to send mode requests to the DPS.	EcAgManager
C-MSS-36490	The Management Agent Service shall have the capability to send resource availability information to the DPS.	MsAgSubAgent
C-MSS-36500	The Management Agent Service shall have the capability to receive processing status from the INS.	MsAgMonitor
C-MSS-36505	The Management Agent Service shall have the capability to receive current mode from the INS.	EcAgManager
C-MSS-36510	The Management Agent Service shall have the capability to receive detected hardware and software fault information from the INS.	MsAgSubAgent
C-MSS-36515	The Management Agent Service shall have the capability to receive event notification from the INS.	EcAgEvent
C-MSS-36520	The Management Agent Service shall have the capability to receive resource utilization data from the INS.	MsAgSubAgent
C-MSS-36540	The Management Agent Service shall have the capability to send life cycle commands to the INS.	EcAgManager
C-MSS-36545	The Management Agent Service shall have the capability to send mode requests to the INS.	EcAgManager

**Table A-1. Requirements Trace (23 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-36550	The Management Agent Service shall have the capability to receive processing status from the DSS.	MsAgMonitor
C-MSS-36555	The Management Agent Service shall have the capability to receive current mode from the DSS.	EcAgManager
C-MSS-36560	The Management Agent Service shall have the capability to receive detected hardware and software fault information from the DSS.	MsAgSubAgent
C-MSS-36565	The Management Agent Service shall have the capability to receive event notification from the DSS.	EcAgEvent
C-MSS-36570	The Management Agent Service shall have the capability to receive resource utilization data from the DSS.	MsAgSubAgent
C-MSS-36575	The Management Agent Service shall have the capability to receive status of data distribution from the DSS.	MsAgSubAgent
C-MSS-36600	The Management Agent Service shall have the capability to send life cycle commands to the DSS.	EcAgManager
C-MSS-36605	The Management Agent Service shall have the capability to send mode requests to the DSS.	EcAgManager
C-MSS-36700	The Management Agent Service shall have the capability to receive processing status from the CSS.	MsAgMonitor
C-MSS-36705	The Management Agent Service shall have the capability to receive current mode from the CSS.	EcAgManager
C-MSS-36710	The Management Agent Service shall have the capability to receive detected hardware and software fault information from the CSS.	MsAgSubAgent
C-MSS-36715	The Management Agent Service shall have the capability to receive event notification from the CSS.	EcAgEvent
C-MSS-36720	The Management Agent Service shall have the capability to receive resource utilization data from the CSS.	MsAgSubAgent
C-MSS-36750	The Management Agent Service shall have the capability to send life cycle commands to the CSS.	EcAgManager
C-MSS-36755	The Management Agent Service shall have the capability to send mode requests to the CSS.	EcAgManager
C-MSS-36800	The Management Agent Service shall have the capability to receive from the ASF, statistical and accounting information in ECS's standard API format.	MsAgSubAgent EcExtSysIFB

**Table A-1. Requirements Trace (24 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-40000	The MSS configuration management application service at each site shall track the following items at the site by name and identifier: a._ECS subsystems, networks, and configured system and network devices such as workstations, servers, and routers b._ECS releases and site baselines c._ECS hardware and software resources designated as configuration items d._specifications associated with configuration items e._technical documentation and test materials f._scientific algorithms, including software, data and test materials (DAACs only)	Algorithm Toolkit Subsystem DocumentProfile ConfiguredDevice BaselineManager HardwareControlItem
C-MSS-40010	The MSS configuration management application service at each site shall identify versions and variants of configuration controlled resources that comprise the site's operational baseline.	Algorithm Toolkit Subsystem SoftwareControlItem HardwareControlItem DocumentProfile ConfiguredDevice BaselineManager CI
C-MSS-40030	The MSS configuration management application service at each site shall make available to the SMC records that identify the site's operational baseline and the versions and implementation status of configuration controlled resources that comprise it.	BaselineManagementReport BaselineManager
C-MSS-40040	The MSS configuration management application service at each site shall make available to the SMC, "level of assembly" records that describe the composition of configuration items at the site.	BaselineManager BaselineManagementReport
C-MSS-40060	The MSS configuration management application service at each site shall maintain historical status records about ECS configuration items at the site, identifying each item's: a._current version; b._current version's specifications and technical, operations, and maintenance documentation; c._specification and technical documentation history; d._"level of assembly" representation of the components comprising the items current and release configurations e._version history	DocumentProfile BaselineManager CI
C-MSS-40070	The MSS configuration management application service at the SMC and the sites shall maintain records that establish traceability among operational baselines and releases.	BaselineManager BaselineProfile
C-MSS-40080	The MSS configuration management application service at the SMC and the sites shall maintain records describing dependencies among baseline objects.	BaselineManager ResourceProfile



**Table A-1. Requirements Trace (25 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-40100	The MSS configuration management application service at the SMC and the DAACs shall maintain SCF-provided configuration data for individual algorithms, including: a._algorithm development version numbers, identification codes, and reference numbers; b._SCF point of contact's name and organization; c._associated files' names, formats, sizes, and descriptions; d._number of files by category and type.	BaselineManager Algorithm
C-MSS-40110	The MSS configuration management application service shall display and report indentured, "level of assembly" lists that describe the component structure of configuration items.	ResourceProfile BaselineManagementReport BaselineManager
C-MSS-40120	The MSS configuration management application service at the SMC shall track the names and identifiers of the following items deployed at the sites: a._ECS subsystems, networks, and configured system and network devices such as workstations, servers, and routers b._ECS releases and baselines c._ECS hardware and software resources designated as configuration items d._technical documentation and test materials; e._scientific algorithms, including software, data and test materials (DAAC's only) f._algorithm processing logic control and calibration coefficients data; g._algorithm test documentation, including specifications, data files, and scripts.	Algorithm HardwareControlItem SoftwareControlItem DocumentProfile ConfiguredDevice CI Toolkit Subsystem BaselineManager
C-MSS-40140	The MSS configuration management application service at the SMC shall maintain, and make available system-wide, information identifying the sites where individual versions of configuration items are located and the operational status of that version at the site.	HardwareControlItem SoftwareControlItem CI ConfiguredDevice BaselineManager
C-MSS-40150	The MSS configuration management application service at the SMC shall maintain, and make available system-wide, records that identify the current and previous versions of ECS hardware and software resources deployed to the sites.	BaselineManagementReport BaselineManager BaselineProfile BaselineChange SoftwareControlItem HardwareControlItem CI
C-MSS-40160	The MSS configuration management application service at the SMC shall maintain records that identify the current and previous versions of ECS documents associated with deployed ECS resources.	BaselineManagementReport BaselineManager BaselineProfile DocumentProfile BaselineChange

**Table A-1. Requirements Trace (26 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-40170	The MSS configuration management application service at the SMC shall maintain, and distribute to each site, records that identify the baseline changes included in each release of ECS hardware and software deployed to the site.	BaselineManager BaselineProfile BaselineManagementReport BaselineChange
C-MSS-40180	The MSS configuration management application service at the SMC shall maintain, and distribute to each site, records that identify the specifications and technical, operations, and maintenance documents associated with versions of ECS hardware and software configuration items deployed to the site.	DocumentProfile BaselineProfile CI BaselineManager
C-MSS-40190	MSS configuration management application service at the SMC shall maintain, and distribute to each site, records that describe the change requests (enhancements and corrections) satisfied by new versions of ECS hardware, software, and documentation deployed to the sites.	DocumentProfile HardwareControlItem ChangeRequestManager BaselineManager BaselineManagementReport
C-MSS-40200	The MSS configuration management application service at the SMC shall maintain historical status records about ECS configuration items system-wide, to include each item's: a._current version; b._current version's specifications and technical, operations, and maintenance documentation; c._specifications and technical documentation history d._"level of assembly" representation of components comprising the item's current and release configurations: e._version history	BaselineManager CI DocumentProfile
C-MSS-40210	The MSS configuration management application service at the SMC shall maintain historical status records about ECS system releases, to include each release's: a._latest baseline plus approved changes. b._baseline history. c._latest release documentation. d._"level of assembly" representation of the subsystem and configuration item versions that comprise the release configuration e._history of changes, including changes to subordinate units/components. f._effectivity and installation status at operational sites. g._release configuration	Subsystem CI ConfiguredDevice DocumentProfile BaselineManager BaselineProfile
C-MSS-40220	The MSS configuration management application service at the SMC shall maintain historical status records about ECS baseline changes to include: a._sites affected; b._installation dates c._installation status.	BaselineManager BaselineProfile

**Table A-1. Requirements Trace (27 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-40240	The MSS configuration management application service at the SMC shall maintain software-critical and security-sensitive items lists.	HardwareControlItem SoftwareControlItem DocumentProfile CI BaselineManager
C-MSS-40250	The MSS configuration management application service at the SMC shall produce, and make available system-wide, reports containing the identity and change status of documents associated with deployed ECS resources.	BaselineManager DocumentProfile BaselineManagementReport
C-MSS-40260	The MSS configuration management application service at the SMC shall produce, and make available system-wide, reports, containing the identity and change status of individual ECS resources deployed to the sites.	BaselineManager Toolkit BaselineManagementReport CI ConfiguredDevice HardwareControlItem SoftwareControlItem
C-MSS-40270	The MSS configuration management application service at the SMC shall produce, and make available system-wide, reports containing the identity of resources comprising ECS baselines and releases.	BaselineProfile BaselineManager BaselineManagementReport ConfiguredDevice HardwareControlItem SoftwareControlItem CI
C-MSS-40280	The MSS configuration management application service shall characterize ECS-controlled resources as system-wide or site-specific.	BaselineManager
C-MSS-40290	The MSS configuration management application service shall accept and store baseline management data records provided via interactive user interface and formatted data files.	SoftwareControlItem DocumentProfile ResourceProfile ChangeRequestManager BaselineProfile BaselineManager SoftwareChangeManager
C-MSS-40300	The MSS configuration management application service shall produce formatted data files containing baseline management data records.	BaselineManager BaselineProfile DocumentProfile ResourceProfile
C-MSS-40400	The MSS configuration management application service at the sites and the SMC shall maintain software libraries to store files containing versions and platform variants of: a._source code; b._binaries and executables;c._patches; d._calibration coefficients and control data; e._scripts; f._designs and design specifications; g._databases; h._technical documentation (both text and graphics); i._test data; j._test reports; k._interface specifications; l._configuration data. (IR-1)	SoftwareChangeManager

**Table A-1. Requirements Trace (28 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-40410	The MSS configuration management application service at each DAAC shall maintain user-definable software configuration status information for each algorithm. (IR-1)	SoftwareChangeManager
C-MSS-40420	The MSS configuration management application service at each site shall maintain M&O staff-definable software configuration status information for each version of every software library file.	SoftwareChangeManager
C-MSS-40460	The MSS configuration management application service at the SMC shall assemble unlicensed toolkit software files for posting to the ECS bulletin board. Files consist of: a._source code; b._linkable object code for selected workstation configurations; c._makefiles that automate installation; d._installation instructions.	Association SoftwareChangeReport View
C-MSS-40470	The MSS configuration management application service shall regulate operations on software library files through use of individual and group permissions.	AccessProfile
C-MSS-40480	The MSS configuration management application service shall use a checkout/edit/checkin paradigm to govern changing of software library files.	SoftwareChangeManager
C-MSS-40490	The MSS configuration management application service shall track each software library file that has been changed as a new version of the original file.	SoftwareChangeManager
C-MSS-40500	The MSS configuration management application service shall merge versions of software library files and identify version conflicts, if any.	LibraryFile
C-MSS-40510	The MSS configuration management application service shall maintain records of actual changes made to ECS software library files in implementing system enhancement requests.	CmScmCotsLog LibraryFile
C-MSS-40520	The MSS configuration management application service shall request, verify, and log a change request number for a software library file before allowing the file to be checked out for modification.	ChangeRequestManager LibraryFile
C-MSS-40530	The MSS configuration management application service shall identify implementation status for each version of every software library file, reflecting the lifecycle stage to which it has been promoted.	BaselineManager LibraryFile
C-MSS-40540	The MSS configuration management application service shall perform builds of baseline systems for ECS platforms and audit the builds such that they can be repeated.	BuildRecord
C-MSS-40550	The MSS configuration management application service shall reconstruct previous versions of software library files.	BuildRecord LibraryFile

**Table A-1. Requirements Trace (29 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-40560	The MSS configuration management application service shall allow concurrent user access to software library files.	AccessProfile LibraryFile
C-MSS-40570	The MSS configuration management application service shall maintain an audit trail of all changes made to software library files.	CmScmCotsLog LibraryFile
C-MSS-40600	The MSS configuration management application service shall provide a capability with which to specify a need for ECS system changes, both for enhancing system capabilities and for correcting non-conformance with system requirements.	ChangeRequestManager ResourceChangeRequest
C-MSS-40610	The MSS configuration management application service shall store copies of non-conformance reports and requests to modify ECS components and configurations.	ChangeRequestManager ResourceChangeRequest
C-MSS-40620	The MSS configuration management application service at the sites shall provide a capability with which to forward non-conformance reports and requests for ECS configuration changes to the SMC.	ResourceChangeRequest ChangeRequestManager
C-MSS-40650	The MSS configuration management application service at the SMC shall receive configuration change requests and non-conformance reports in electronic form from the sites.	ResourceChangeRequest ChangeRequestManager
C-MSS-40660	The MSS configuration management application service at the SMC shall distribute change evaluation requests to designated organizations system-wide and record evaluation assignments and distribution status.	ResourceChangeRequest ChangeRequestManager
C-MSS-40670	The MSS configuration management application service at the SMC shall receive and store impact assessments in response to change evaluation requests.	ResourceChangeRequest ChangeRequestManager Attachment
C-MSS-40680	The MSS configuration management service at the SMC shall electronically link impact assessments to their associated change requests.	Attachment ChangeRequestManager ResourceChangeRequest
C-MSS-40690	The MSS configuration management application service at the SMC shall maintain the status of responses to change evaluation requests.	ChangeRequestManager ResourceChangeRequest
C-MSS-40700	The MSS configuration management application service at the SMC shall record summaries of impact assessments received.	Attachment ChangeRequestManager ResourceChangeRequest
C-MSS-40720	The MSS configuration management application service at the SMC shall make non-conformance reports, configuration change requests, assessments, and status available for system-wide viewing.	ChangeRequestManager ResourceChangeRequest ResourceChangeRequestReport

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-40730	The MSS configuration management application service at the SMC shall maintain historical records of ECS configuration change requests, non-conformance reports, and system impact assessments.	ChangeRequestManager ResourceChangeRequest
C-MSS-40750	The MSS configuration management application service at the SMC shall track approval and closure status of configuration change requests and non-conformance reports.	ChangeRequestManager ResourceChangeRequest
C-MSS-40760	The MSS configuration management application service at the SMC shall report, and make available system-wide lists of the identity and disposition of configuration change requests and non-conformance reports against ECS baselines.	ResourceChangeRequestReport SoftwareChangeManager
C-MSS-40770	The MSS configuration management application service at the SMC shall collect, and make available system-wide, the allocations, schedules and status of tasks for implementing CCB-approved changes to ECS hardware and software and for correcting non-conformance with system requirements.	ResourceChangeRequestReport
C-MSS-40990	The MSS configuration management application service shall log the following information for configuration management events:a._operation type;b._userid of initiator;c._date-time stamp;d._host name. (IR-1, at the sites only)	BaselineManager ChangeRequestManager CmBmCotsLog CmCrmCotsLog CmScmCotsLog SoftwareChangeManager
C-MSS-40995	The MSS configuration management application service shall generate chronological reports of logged CM events associated with M&O staff-selectable: a._time frames;b._operation types;c._userids;d._hosts.	BaselineManager SoftwareChangeManager CmCrmCotsLog CmScmCotsLog
C-MSS-42000	The MSS Software Distribution Service shall maintain version controlled repositories for toolkit software, software upgrades, and documentation.	MsMISdDistributionMgrB
C-MSS-42010	The MSS Software Distribution Service shall have the capability to retrieve the contents for each repository from the MSS Baseline Manager Service.	MsMISdMgrB MsMISdDistributionScripts
C-MSS-42020	The MSS Software Distribution Service shall provide via the CSS Bulletin Board Service access to the toolkit repository/ information.	CsBBMailRelA MsMISdMgrB
C-MSS-42030	The MSS Software Distribution Service shall package software, databases, and documentation for delivery to destinations at both ECS and ECS-connected sites.	MsMISdMgrB MsMISdSWPackageB MsMISdDistributionMgrB MsMISdDistributionScripts
C-MSS-42040	The MSS Software Distribution Service shall schedule via the EMC Planning and Scheduling Service automatic and operator-assisted distribution of software packages.	MsMISdMgrB MsMISdDistributionMgrB

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-42070	The MSS Software Distribution Service shall determine destinations from stored lists as well as via interactive input.	MsMISdMgrB MsMISdDistributionMgrB
C-MSS-42080	The MSS Software Distribution Service shall have the capability to push software packages from a central distribution point/depot to remote target platforms (servers and workstations).	MsMISdDistributionMgrB MsMISdMgrB
C-MSS-42090	The MSS Software Distribution Service at the site shall have the capability to pull distribution packages from central distribution points/depots onto individual target destinations.	MsMISdDistributionMgrB MsMISdMgrB
C-MSS-42100	The MSS Software Distribution Service shall initiate electronic transfer of distribution packages either automatically according to schedule or upon direct command.	MsMISdMgrB MsMISdDistributionMgrB
C-MSS-42110	The MSS Software Distribution Service shall maintain a record of successful package transfers as well as of each target that fails to receive a package intended for it.	MsMISdMgrB MsMISdDistributionMgrB
C-MSS-42200	The MSS License Management Service shall maintain information on product identification, licensing provisions, numbers and types of users	ILMItemB MsMILiLicenseB
C-MSS-42230	The MSS License Management Service shall distribute software license provisions system-wide.	MsMILiLicenseMgr MsMISdDistributionMgrB MsMILiLicenseB MsMILiFLEXImServer MsMISdMgrB
C-MSS-42240	The MSS License Management Service shall create, install, modify, and reinstall software licenses on ECS servers.	MsMILiFLEXImServer MsMILiLicenseB MsMILiLicenseMgr MsMISdDistributionMgrB MsMISdMgrB
C-MSS-42250	The MSS License Management Service shall meter use of software licenses,	MsMILiMeterB MsMILiFLEXImServer
C-MSS-42270	The MSS License Management Service shall have the capability to notify the M&O staff when license metering events occur.	MsMILiFLEXImServer MsMILiFLEXImServerLog MsMILiFORLSServerLog MsMILiMeterB MsCmBmProxyAgent MsMILiFORLSServer
C-MSS-42280	The MSS License Management Service shall log license management events	MsMILiFORLSServerLog MsCmBmProxyAgent MsMILiLogB MsMILiFLEXImServer MsMILiFLEXImServerLog MsMILiFORLSServer

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-42290	The MSS License Management Service shall compile license utilization statistics.	MsMILiiFORLSServerLog MsMILiiFORLSServer MsMILiFLEXImServer MsMILiFLEXImServerLog
C-MSS-42300	The MSS License Management Service shall report license utilization statistics.	MsMILiiFORLSServerLog MsMILiLogB MsMILiReportGeneratorB MsMILiFLEXImServer MsMILiFLEXImServerLog MsMILiiFORLSServer
C-MSS-45010	The MSS Inventory/Logistics Management Service at the SMC shall maintain an on-line, system-wide catalog of non-expendable and consumable ECS resources.	SystemWideLogistics SystemWideInventory ILMMgrB ILMItemB MsMItemB
C-MSS-45020	The MSS Inventory/Logistics Management Service at the SMC shall provide consolidated, system-wide views of ECS sites' inventory data.	ILMItemB ILMMgrB SystemWideInventory
C-MSS-45030	The MSS Inventory/Logistics Management at the SMC shall track excess resources designated for reutilization or disposal.	SystemWideInventory SystemWideLogistics ILMMgrB ILMItemB
C-MSS-45040	The MSS Inventory/Logistics Management Service at the SMC shall generate site and multi-site inventory reports for printout and display.	ILMMgrB ILMReportGenerator SiteInventory SiteLogistics SystemWideInventory SystemWideLogistics ILMItemB
C-MSS-45050	The MSS Inventory/Logistics Management Service shall maintain inventory records of individual non-expendable and consumable ECS resources.	ILMMgrB SiteInventory SiteLogistics ILMItemB MsMItemB
C-MSS-45060	The MSS Inventory/Logistics Management Service shall have the capability to update and track ECS resources status.	MsMItemB ILMItemB ILMMgrB SiteInventory SiteLogistics SystemWideInventory SystemWideLogistics
C-MSS-45070	The MSS Inventory/Logistics Management Service shall record attributes of inventoried resources.	ILMItemB ILMMgrB MsMItemB



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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-45080	The MSS Inventory/Logistics Management Service shall distinguish between ECS resources and non-ECS resources in the inventory.	ILMItemB ILMMgrB MsMItemB
C-MSS-45090	The MSS Inventory/Logistics Management Service shall generate site inventory reports for printout and display.	ILMItemB ILMMgrB ILMReportGenerator
C-MSS-45200	The MSS Logistics Management Service shall provide the capability to input, store, update and view/print specified site's spare inventory information.	SiteLogistics ILMItemB ILMMgrB ILMReportGenerator SiteInventory
C-MSS-45210	The MSS Inventory/Logistics Management Service at the SMC shall provide the capability to produce individual site or consolidated sites spare related reports based on operator entered criteria.	ILMMgrB ILMReportGenerator SystemWideLogistics ILMItemB SiteLogistics
C-MSS-45220	The MSS Inventory/Logistics Management Service shall provide the capability to input, store, update, and view/print information concerning site spare parts order information.	ILMItemB ILMMgrB ILMReportGenerator SiteLogistics SystemWideLogistics
C-MSS-45230	The MSS Inventory/Logistics Management Service shall provide the capability to keep track of spares on-hand quantities, and quantity used.	ILMMgrB SiteLogistics ILMItemB SystemWideLogistics
C-MSS-45240	The MSS Inventory/Logistics Management Service shall provide the capability to generate site spare related reports.	ILMItemB ILMMgrB ILMReportGenerator SiteLogistics
C-MSS-45245	The MSS Inventory/Logistics Management Service shall provide the capability to generate order information for resupply of spare parts.	SystemWideLogistics ILMItemB ILMMgrB ILMReportGenerator SiteLogistics
C-MSS-45250	The MSS Inventory/Logistics Management Service shall provide the capability to input, store, maintain, and view/print site spare parts (orders) information.	SiteLogistics ILMMgrB ILMItemB SystemWideLogistics ILMReportGenerator
C-MSS-45260	The MSS Inventory/Logistics Management Service shall have the capability to identify those items whose on-hand quantity has reached the established reorder point.	ILMItemB ILMMgrB SiteLogistics SystemWideLogistics

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-45270	The MSS Inventory/Logistics Management Service shall provide the capability to generate site spare parts related reports based on operator entered criteria.	SiteLogistics SystemWideLogistics ILMReportGenerator ILMMgrB ILMItemB
C-MSS-45280	The MSS Inventory/Logistics Management Service at the SMC shall provide the capability to generate individual site or consolidated sites consumable items reports based on operator entered criteria.	ILMMgrB ILMReportGenerator SiteLogistics SystemWideLogistics ILMItemB
C-MSS-45290	The MSS Inventory/Logistics Management Service shall provide the capability to input, store, update, and view/print site consumable item information.	SystemWideLogistics ILMItemB ILMMgrB ILMReportGenerator SiteLogistics
C-MSS-45300	The MSS Inventory/Logistics Management Service shall provide the capability to generate site consumable items related reports based on operator entered criteria.	SystemWideLogistics SiteLogistics ILMReportGenerator ILMItemB ILMMgrB
C-MSS-45310	The MSS Inventory/Logistics Management Service shall provide the capability to input, store, maintain, and view/print sites' consumable items orders information.	ILMItemB ILMMgrB ILMReportGenerator SiteLogistics SystemWideLogistics
C-MSS-45320	The MSS Inventory/Logistics Management Service at the SMC shall provide the capability to generate individual site or consolidated sites consumable items on-order reports based on operator entered criteria.	ILMMgrB SystemWideLogistics ILMReportGenerator ILMItemB SiteLogistics
C-MSS-50000	The MSS Maintenance Management Service shall provide the capability to view specified site's PM information .	ILMItemB ILMMgrB ILMReportGenerator SiteMaintenance
C-MSS-50010	The MSS Maintenance Management Service shall provide the capability to view specified site's corrective maintenance information.	SiteMaintenance ILMItemB ILMMgrB ILMReportGenerator
C-MSS-50020	The MSS Maintenance Management Service shall provide the M&O staff the capability to produce PM and corrective maintenance reports based on operator entered criteria.	ILMMgrB ILMItemB SiteMaintenance SystemWideMaintenance ILMReportGenerator
C-MSS-50030	The MSS Maintenance Management Service at the SMC shall have the capability to receive specified site maintenance data for use in maintenance trends analysis.	ILMItemB ILMMgrB SiteMaintenance

**Table A-1. Requirements Trace (35 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-50040	The MSS Maintenance Management Service shall provide the capability to input, store, maintain, and view/print Preventive Maintenance (PM) information for site equipment.	SiteMaintenance ILMItemB ILMMgrB ILMReportGenerator
C-MSS-50050	The MSS Maintenance Management Service shall provide the capability to input, store, maintain, and view/print key information concerning PM performed.	SystemWideMaintenance SiteMaintenance ILMReportGenerator ILMItemB ILMMgrB
C-MSS-50060	The MSS Maintenance Management Service shall provide the capability to input, store, maintain, and view/print corrective maintenance performed (CMP) information.	ILMItemB ILMMgrB ILMReportGenerator SiteMaintenance SystemWideMaintenance
C-MSS-50070	The MSS Maintenance Management Service shall have the capability, via M&O Staff entered criteria, to retrieve and display information relevant to PM and corrective maintenance services previously performed.	ILMItemB ILMMgrB SiteMaintenance SystemWideMaintenance
C-MSS-50090	The MSS Maintenance Management Service shall have the capability to replaced/modified equipment information maintained in the MSS Baseline Manager Service database.	ILMItemB ILMMgrB SystemWideMaintenance SiteMaintenance
C-MSS-50100	The MSS Maintenance Management Service shall log the following information for operations performed and detected errors: operation type, userid of initiator, date time stamp; and host name	ILMItemB ILMMgrB SiteMaintenance SystemWideMaintenance
C-MSS-50110	The MSS Maintenance Management Service shall generate chronological reports of logged events associated with user selectable: time frames; operation types; userids; and hosts.	ILMItemB ILMMgrB ILMReportGenerator
C-MSS-50120	The MSS Maintenance Management Service shall provide the capability to maintain sites' off-site maintenance information.	SystemWideMaintenance ILMItemB ILMMgrB
C-MSS-50130	The MSS Maintenance Management Service shall provide off-site maintenance reports based on operator entered criteria.	SystemWideMaintenance ILMReportGenerator ILMItemB ILMMgrB
C-MSS-50140	The MSS Maintenance Management Service shall record off-site maintenance information: identification of component; description of problem; and corrective action taken.	ILMItemB ILMMgrB SystemWideMaintenance
C-MSS-50160	The MSS Maintenance Management Service shall provide the capability to input off-site corrective hardware and software information.	ILMItemB ILMMgrB SystemWideInventory SystemWideMaintenance

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-50170	The MSS Maintenance Management Service shall provide the capability to store off-site corrective hardware and software information.	ILMMgrB SystemWideInventory SystemWideMaintenance ILMItemB
C-MSS-50180	The MSS Maintenance Management Service shall provide the capability to update off-site corrective hardware and software information.	ILMItemB ILMMgrB SystemWideInventory SystemWideMaintenance
C-MSS-50190	The MSS Maintenance Management Service shall provide the capability to view off-site corrective hardware and software information.	ILMMgrB SystemWideInventory ILMItemB SystemWideMaintenance
C-MSS-50200	The MSS Maintenance Management Service shall provide the capability to generate off-site maintenance reports based on operator entered criteria.	SystemWideMaintenance ILMItemB ILMMgrB ILMReportGenerator
C-MSS-50210	The MSS Maintenance Management Service shall provide the capability to access a specified site's off-site maintenance repair information.	SystemWideMaintenance SiteMaintenance ILMItemB ILMMgrB
C-MSS-50230	The MSS Maintenance Management Service shall provide the capability to produce maintenance status reports.	ILMItemB ILMMgrB SiteMaintenance SystemWideMaintenance
C-MSS-50235	The MSS Maintenance Management Service shall have the capability to schedule maintenance events via the MSS Planning and Scheduling Service.	SiteMaintenance PIRpResourceReservation ILMItemB ILMMgrB SystemWideMaintenance
C-MSS-51010	The MSS Training Management Service shall provide the capability to input, store, maintain, and view/print training information.	MsRgRepWriterB MsMITrMgrB MsMITrInstructorB MsMITrCurriculumB MsMITrCourseLocationB MsMITrCourseB PIRpResourceReservation MsMITrScheduleB MsMITrTrainingCostB
C-MSS-51020	The MSS Training Management Service shall provide the capability to input, store, maintain, and view/print training records information.	MsMITrMgrB MsMITrCertificationB MsMITrCurriculumB MsMITrMOSstaffIB MsMITrTraineeB MsRgRepWriterB MsAcUsrProfile MsMITrCertSkillsCatalogB

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-51030	The MSS Training Management Service shall provide the capability to input, store, maintain, and view/print site training requirements information.	MsMITrMOStaffIFB MsMITrMgrB MsMITrRequirementsB MsRgRepWriterB
C-MSS-51060	The MSS Training Management Service at the SMC shall provide the capability to prepare, update, store, view/print, and disseminate training courses descriptions, course prerequisites, resource requirements, and schedules.	MsMITrMOStaffIFB MsMITrMgrB MsRgRepWriterB MsMITrScheduleB MsMITrCourseB MsMITrRequirementsB
C-MSS-51070	The MSS Training Management Service shall provide the capability to retrieve and view/print training courses and schedules information from a SMC training information repository.	MsRgRepWriterB MsMITrMOStaffIFB MsMITrCourseB MsMITrMgrB MsMITrScheduleB
C-MSS-51080	The MSS Training Management Service at the SMC shall provide the capability to prepare, update, store, and view/print a list of self study, supervisory, and testing requirements for each of the OJT designated ECS positions.	MsMITrMgrB MsMITrRequirementsB MsMITrCourseB MsRgRepWriterB MsMITrMOStaffIFB
C-MSS-51090	The MSS Training Management Service at the SMC shall provide the capability to prepare, update, store copy of, and view/print training material.	MsMITrInventoryIFB MsMITrMOStaffIFB MsMITrMaterialB MsRgRepWriterB MsMITrMgrB
C-MSS-51100	The MSS Training Management Service at the SMC shall provide the capability to capture and make available suggestions/ recommendations concerning the use of training material for applicable courses.	MsMITrMOStaffIFB MsMITrMaterialB MsMITrMgrB
C-MSS-51110	The MSS Training Management Service at the SMC shall provide the capability to capture, summarize, and make available course critique.	MsMITrMgrB
C-MSS-51115	The MSS Training Management Application Service shall make available to the MSS Inventory Management Service, any necessary information about training materials, for the purposes of maintaining these materials as inventory items.	MsMITrInventoryIFB MsMITrMaterialB MsMITrMgrB MsMITrCourseB
C-MSS-51120	The MSS Training Management Service shall have the capability to schedule training events.	MsMITrMgrB MsMITrScheduleB
C-MSS-52010	The MSS Policy and Procedures Management Service at the SMC shall provide the capability to prepare, store, maintain, and make available for distribution ECS policies and procedures.	InInteractiveIngest MsMIPpPolicies&ProceduresMgrB
C-MSS-52020	The MSS Policy and Procedures Management Service shall provide the capability to access, select, and display/print ECS policies and procedures.	MsBulletinBoardB

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-52030	The MSS Policy and Procedures Management Service shall provide the capability to input, store, maintain, and view/print site specific policies and procedures.	MsMIPpPolicies&ProceduresMgrB InInteractiveIngest
C-MSS-52040	The MSS Policy and Procedures Management Service shall provide a bulletin board service with information on ECS, status, events and news,	MsMIPpPolicies&ProceduresMgrB MsBulletinBoardB CsBBMailRelA
C-MSS-52050	The MSS Policy and Procedures Management Service shall maintain a bulletin board service with information on ECS, status, events and news,	CsBBMailRelA MsMIPpPolicies&ProceduresMgrB
C-MSS-56010	The MSS Mode Management Service shall support a operational mode capability	MsMmModeTerm MsAgMonitor MsMmModeInit MsAgPortMonitor
C-MSS-56020	The MSS Mode Management Service shall support a test mode capability	MsAgMonitor MsMmModeTerm MsMmModeInit MsAgPortMonitor
C-MSS-56030	The MSS Mode Management Service shall support a training mode capability	MsAgPortMonitor MsAgMonitor MsMmModeInit MsMmModeTerm
C-MSS-56040	The MSS Mode Management Service shall have the capability to monitor each independently executing mode for performance statistics.	MsAgSubAgent ManagementFramework
C-MSS-56050	The MSS Mode Management Service shall provide fault detection and isolation capabilities for each independently executing mode.	MsAgSubAgent ManagementFramework EcAgMetric EcAgManager EcAgFaultMetric
C-MSS-56060	The MSS Mode Management Service shall maintain a collection of management statistics for each mode supported.	EcAgMetric
C-MSS-56070	The MSS Mode Management test mode shall be capable of executing simultaneously with the operational mode	MsAgMonitor MsMmModeTerm MsMmModeInit MsAgPortMonitor
C-MSS-56080	The MSS Mode Management training mode shall be capable of executing simultaneously with the operational mode.	MsAgPortMonitor MsAgMonitor MsMmModeTerm MsMmModeInit
C-MSS-56090	The MSS Mode Management Service shall have the capability to identify components which have been taken off-line for maintenance	MsAgMonitor

**Table A-1. Requirements Trace (39 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-57500	The Trouble Ticketing Service shall have a graphical user interface to support the entry and editing of trouble tickets.	MsTtManager MsTtServiceRequestor MsTtHTMLMenu MsTtHTMLItems MsTtEntry MsTtEntryList
C-MSS-57510	The Trouble Ticketing Service shall provide the ability to automatically notify the originator of the trouble ticket of changes in status.	MsTtManager
C-MSS-57520	The Trouble Ticketing Service shall provide an Application Program Interface which supports integration of entry of trouble tickets by other packages.	MsTtManager
C-MSS-57530	The Trouble Ticketing Service shall provide the ability to search historical and current trouble tickets by various criteria including keyword, user id, and trouble ticket ID.	MsTtManager
C-MSS-57540	The Trouble Ticketing Service shall provide the ability to forward trouble tickets from one organization to another to facilitate the escalation of trouble tickets (e.g. from DAAC to SMC).	MsTtManager
C-MSS-57550	The Trouble Ticketing Service shall provide the ability to maintain different trouble ticket statuses including: Open, Work-In-Progress, Closed, Archived.	MsTtManager
C-MSS-57560	The Trouble Ticketing Service shall provide the ability to search for trouble tickets relating to the same resource (equipment).	MsTtManager
C-MSS-57580	The Trouble Ticketing Service shall provide the ability to store the following minimum set of information : unique trouble ticket ID, status, description, associated resources, problem solution, originator, keywords.	MsTtManager
C-MSS-57590	The Trouble Ticketing Service shall integrate with the MSS framework to allow management and monitoring of its services.	MsTtProxy
C-MSS-57600	The Trouble Ticketing Service shall allow entry of a trouble ticket by any registered user of the system.	MsTtServiceRequestor MsTtEntryList MsTtHTMLItems MsTtEntry MsTtManager
C-MSS-57610	The Trouble Ticketing Service shall provide the capability to generate reports from the its data.	MsTtManager
C-MSS-57620	The Trouble Ticketing Service shall allow output of reports to either the screen or printer.	MsTtManager

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-57630	The Trouble Ticketing Service shall provide customization features to allow sites to specify notification and escalation rules.	MsTtManager
C-MSS-60010	The MSS Fault Management Application Service shall provide the capability to create and display graphical representations of a given network topology consisting of the following: _a._routers_b._communication lines_c._hosts_d._peripherals_e._applications	ManagementFramework
C-MSS-60020	The MSS Fault Management Application Service shall provide the capability to define categories of faults.	MsFIConfig EnterpriseFramework ManagementFramework
C-MSS-60030	The MSS Fault Management Application Service shall provide the capability to assign faults to categories._	ManagementFramework MsFIConfig EnterpriseFramework
C-MSS-60040	The MSS Fault Management Application Service shall provide the capability to assign severity levels to faults._	ManagementFramework MsFIConfig
C-MSS-60050	The MSS Fault Management Application Service shall be capable of providing the Management Data Access Service with a configurable list of fault categories that specify whether to enable or disable the logging of fault notifications for that fault category._	MsAgSubAgent
C-MSS-60060	The MSS Fault Management Application Service shall provide the capability to enable or disable the display of fault notifications received from a specific managed object based on fault category assigned to that fault._	MsFIConfig ManagementFramework
C-MSS-60070	The MSS Fault Management Application Service shall provide the capability to specify additional information to be added to a disk log file, based on the fault category, when the notification of a fault is received._	MsFIConfig ManagementFramework
C-MSS-60080	The MSS Fault Management Application Service shall have the capability to establish, view, modify and delete thresholds on performance metrics it measures._	ManagementFramework
C-MSS-60100	The MSS Fault Management Application Service shall have the capability to poll for the detection of fault/performance information._	ManagementFramework
C-MSS-60110	The MSS Fault Management Application Service shall be capable of receiving fault notifications.	ManagementFramework
C-MSS-60120	The MSS Fault Management Application Service shall have the capability to define the frequency with which polling is done for the detection of fault/performance information._	ManagementFramework



**Table A-1. Requirements Trace (41 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-60130	The MSS Fault Management Application Service shall provide the capability to detect the following types of faults, errors and events: <u>a.</u> communications software version mismatch errors <u>b.</u> communication software configuration errors <u>c.</u> the following errors in communication hardware: <u>1.</u> host not reachable <u>2.</u> router not reachable <u>3.</u> errors and failures of communication links <u>d.</u> Errors in the communications protocols supported <u>e.</u> degradation of performance due to established thresholds being exceeded <u>f.</u> Peripherals <u>g.</u> Databases <u>h.</u> Applications: <u>1.</u> process missing (Application or COTS product) <u>2.</u> process in a loop <u>3.</u> process failed	ManagementFramework EnterpriseFramework
C-MSS-60140	The MSS Site Fault Management Application Service shall have the capability to generate a fault notification when a predefined threshold on a performance metric is exceeded.	MsFIConfig ManagementFramework
C-MSS-60150	The MSS Fault Management Application Service shall have the capability to receive fault notifications from the Management Agent Service.	MsFIConfig EnterpriseFramework ManagementFramework
C-MSS-60160	The MSS EMC Fault Management Application Service shall have the capability to receive notifications of detected faults and degradation of performance from: <u>a.</u> Site fault management applications <u>b.</u> Other external systems as defined in Section 5.1.	EcExtSysIFB
C-MSS-60161	The MSS EMC Fault Management Application Service shall have the capability to receive notifications of detected faults and degradation of performance from: <u>a.</u> Site fault management applications <u>b.</u> EBnet <u>c.</u> ASTER <u>d.</u> NOAA (SAA) <u>e.</u> Landsat(MMO) <u>f.</u> NSI <u>g.</u> NOLAN	EcExtSysIFB ManagementFramework MsFIConfig MsFISMC
C-MSS-60170	The MSS EMC Fault Management Application Service shall be capable of requesting fault notification and performance degradation data from : <u>a.</u> Site Fault Management Applications <u>b.</u> Other external systems as defined in Section 5.1.	EcExtSysIFB

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-60171	The MSS EMC Fault Management Application Service shall be capable of requesting fault notification and performance degradation data from : a. Site Fault Management Applications b. EBnet c. ASTER d. NOAA(SAA) e. Landsat(MMO) f. NSI g. NOLAN	ManagementFramework EcExtSysIFB MsFISMC MsFIConfig
C-MSS-60180	The MSS EMC Fault Management Application Service shall be capable of receiving summarized fault notification and performance degradation data from: a._Site fault management applications b._Other external systems as defined in Section 5.1.	EcExtSysIFB
C-MSS-60181	The MSS EMC Fault Management Application Service shall be capable of receiving summarized fault notification and performance degradation data from: a. Site fault management applications b. EBnet c. ASTER d. NOAA(SAA) e. Landsat(MMO) f. NSI g. NOLAN	EcExtSysIFB MsFISMC
C-MSS-60190	The MSS Fault Management Application Service shall use the Logging Services to record each detected fault.	EcAgEvent
C-MSS-60200	The MSS Fault Management Application Service shall have the capability to generate the following types of notifications for detected faults :_a._a change in the color of an icon on a display_b._a message in a pop-up notification window_c._logging the following fault information to a disk log file:___1. fault type___2. date and time of occurrence of the fault___3. identification of the source of the notification (e.g. IP address, process name, etc.)___4. fault data received with the notification___5. operator-defined descriptive text_d._audible alert	ManagementFramework
C-MSS-60210	The MSS Fault Management Application Service shall maintain a list of external service providers, M&O operators, and applications to be notified in the event that a specified fault is detected.	MsFIConfig
C-MSS-60220	The MSS Fault Management Application Service shall have the capability to send the notification of a fault to registered recipients._	MsFIConfig

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-60230	The MSS Fault Management Application Service shall have the capability of generating a notification within a maximum of five minutes of fault detection.	MsFIConfig
C-MSS-60240	The MSS Fault Management Application Service shall have the capability to send ECS system management information to ASTER GDS.	MsFISMC MsFIConfig ManagementFramework EcExtSysIFB
C-MSS-60242	The MSS Fault Management Application Service shall have the capability to receive ASTER GDS system management information from ASTER GDS.	MsFISMC MsFIConfig EcExtSysIFB ManagementFramework
C-MSS-60244	The MSS Fault Management Application Service shall have the capability to send ECS network management information to ASTER GDS.	MsFIConfig MsFISMC EcExtSysIFB ManagementFramework
C-MSS-60246	The MSS Fault Management Application Service shall have the capability to receive ASTER GDS network management information from ASTER GDS.	MsFIConfig ManagementFramework MsFISMC EcExtSysIFB
C-MSS-60248	The MSS Fault Management Application Service shall have the capability to send requests for ASTER GDS network management information to ASTER GDS.	EcExtSysIFB ManagementFramework MsFIConfig MsFISMC
C-MSS-60250	The MSS Fault Management Application Service shall have the capability to receive requests for ECS network management information from ASTER GDS.	ManagementFramework MsFIConfig MsFISMC EcExtSysIFB
C-MSS-60252	The MSS Fault Management Application Service shall have the capability to send Network Management information to the SAAs.	MsFIConfig MsFISMC EcExtSysIFB ManagementFramework
C-MSS-60254	The MSS Fault Management Application Service shall have the capability to receive Network Management information from the SAAs.	MsFIConfig MsFISMC EcExtSysIFB ManagementFramework
C-MSS-60260	The MSS Fault Management Application Service shall have the capability to send System Management status to the MMO.	ManagementFramework MsFISMC EcExtSysIFB MsFIConfig
C-MSS-60262	The MSS Fault Management Application Service shall have the capability to receive System Management status from the MMO.	EcExtSysIFB MsFISMC ManagementFramework MsFIConfig

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-60264	The MSS Fault Management Application Service shall have the capability to receive notification from NSI of faults in NSI's network that may affect the quality of NSI services between ECS and its users.	MsFISMC EcExtSysIFB ManagementFramework MsFIConfig
C-MSS-60266	The MSS Fault Management Application Service shall have the capability to query from NSI information regarding the following which may affect the quality of NSI services between ECS and it users: a. fault status b. estimated time to repair c. fault resolution	MsFIConfig MsFISMC EcExtSysIFB ManagementFramework
C-MSS-60268	The MSS Fault Management Application Service shall have the capability to query from NSI periodic summary information about faults that may have affected the quality of NSI services between ECS and its users.	ManagementFramework MsFIConfig EcExtSysIFB MsFISMC
C-MSS-60278	The MSS Fault Management Application Service shall have the capability to receive, from NOLAN, notification of faults in the NOLAN network that may affect the quality of NOLAN services between ECS and its users.	ManagementFramework EcExtSysIFB MsFISMC MsFIConfig
C-MSS-60280	The MSS Fault Management Application Service shall have the capability to receive, from NOLAN, information regarding fault status and estimated time to repair or resolve NOLAN faults that may affect the quality of NOLAN services between ECS and its users.	EcExtSysIFB MsFISMC MsFIConfig ManagementFramework
C-MSS-60282	The MSS Fault Management Application Service shall have the capability to receive, from NOLAN, periodic summary information about faults that may have affected the quality of NOLAN services between ECS and its users.	MsFIConfig ManagementFramework EcExtSysIFB MsFISMC
C-MSS-60300	The MSS Fault Management Application Service shall provide the capability to identify routes between selected pairs of hosts on the ESN.	MsFITest
C-MSS-60301	The MSS Fault Management Application Service shall provide the capability to identify routes between selected pairs of hosts on the EBnet.	ManagementFramework
C-MSS-60303	The Fault Management Application Service shall have the capability to send diagnostic test requests to the ISS.	MsFIConfig MsFISMC ManagementFramework
C-MSS-60305	The Fault Management Application Service shall have the capability to receive diagnostic test results from the ISS.	MsFIConfig MsFISMC ManagementFramework

**Table A-1. Requirements Trace (45 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-60310	The MSS Fault Management Application Service shall provide utilities to perform diagnostics and testing of the following for the purpose of fault isolation: a. connectivity between pairs of ECS hosts and ECS routers b. ability to reach hosts and routers c. availability of network services at hosts.	MsFITest
C-MSS-60320	The MSS Fault Management Application Service shall provide, for selective use as a debugging aid, the capability to perform packet tracing of protocols used in ECS.	MsFITest
C-MSS-60330	The MSS Fault Management Application Service at each site shall have the capability to perform periodic testing of all ECS communication links at that site to verify that they are operational.	ManagementFramework MsFIConfig
C-MSS-60340	The MSS Fault Management Application Service shall be capable of verifying the operational status of a host.	MsFIConfig ManagementFramework
C-MSS-60350	The MSS Fault Management Application Service shall have the capability to periodically execute diagnostic tests in order to isolate, characterize and identify a fault.	MsFITest MsFIConfig ManagementFramework
C-MSS-60360	The MSS Fault Management Application Service shall provide the capability to execute vendor diagnostics in order to diagnose faults traced to hardware equipment.	MsFITest
C-MSS-60370	The MSS Fault Management Application Service at the SMC shall be capable of sending gathered isolation, location, identification and characterization of reported faults data to the level of subsystem and equipment to the following: a. the site Fault Management Applications b. other external systems as defined in Section 5.1 of the current version of 304-CD-003.	EcExtSysIFB ManagementFramework
C-MSS-60371	The MSS Fault Management Application Service at the SMC shall be capable of sending gathered isolation, location, identification and characterization of reported faults data to the level of subsystem and equipment to the following: a. Site Fault Management Applications b. EBnet c. ASTER b. NOAA(SAA) e. Landsat (MMO) f. NSI g. NOLAN.	EcExtSysIFB MsFISMC
C-MSS-60380	The MSS Fault Management Application Service at the sites shall isolate, locate, and identify faults, identify subsystem, equipment and software faults, and identify the nature of the faults detected within its site.	MsFIConfig EnterpriseFramework ManagementFramework

**Table A-1. Requirements Trace (46 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-60390	The MSS Fault Management Application Service at the sites shall, for faults detected within its site, isolate, locate, and identify faults to the level of: _a._subsystem _b._equipment _c._software	EnterpriseFramework ManagementFramework MsFIConfig
C-MSS-60395	The MSS Fault Management Application Service shall be capable of retrieving records of detected fault.	ManagementFramework
C-MSS-60400	The MSS Fault Management Application Service shall support, maintain, and update system fault management policies and procedures, to include: _a._Fault Identification _b._Fault priorities _c._Recovery or corrective actions	MsFISMC
C-MSS-60410	The MSS Site Fault Management Application Service shall have the capability to receive Fault Management Policies and Procedures from the EMC._	MsFISMC
C-MSS-60420	The MSS Fault Management Application Service shall interface with the MSS Configuration Management Application Service and schedule a change in the configuration of the site when such a change in the configuration of the site is deemed necessary to recover from a fault._	MsFIAction
C-MSS-60500	The MSS EMC Fault Management Application Service shall coordinate the recovery from conditions of performance degradation and faults with the sites and external network service providers.	MsFIExtSys
C-MSS-60510	The MSS EMC Fault Management Application Service at the SMC shall coordinate, as necessary via directives and instructions, the recovery from faults reported from a site.	MsFISMC
C-MSS-60520	The MSS Fault Management Application Service shall provide the capability to allow the specification and execution of action routines in response to the notification of a fault.	MsFIConfig ManagementFramework
C-MSS-60530	The MSS Fault Management Application Service shall provide the capability to pass parameters to action routines.	ManagementFramework
C-MSS-60540	The MSS Fault Management Application Service shall utilize office automation support tools for the generation of directives and instructions for recovery from faults within its site.	MCI
C-MSS-60600	The MSS Fault Management Application Service shall have the capability to generate, on an interactive and on a scheduled basis, reports on performance/error data that it has been configured to collect.	ManagementFramework

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-60610	The MSS Fault Management Application Service shall have the capability to build histories for different types of errors and events detected, for the purpose of analysis.	MACI MCI
C-MSS-60620	The MSS Fault Management Application Service shall have the capability to redirect reports to:a._consoleb._disk filec._printer	ManagementFramework
C-MSS-66000	The MSS performance management application service shall be capable of monitoring the performance of the following ECS componentsa._network components_1. routers_2. links_3. bridges_4. gateways	ManagementFramework MsPmApplManager
C-MSS-66001	The MSS performance management application service shall be capable of monitoring the performance of the following ECS components a. network components 1. routers 2. links 3. bridges 4. gateways b. hosts c. operating systems d. peripherals e. data f. ECS applications.	ManagementFramework MsPmApplManager
C-MSS-66010	The MSS performance management application service shall be capable of monitoring ECS component protocol stack performance parameters defined in IETF RFC 1213.	ManagementFramework
C-MSS-66020	The MSS Performance Management Application Service shall be capable of monitoring ethernet-like device performance parameters as specified in IETF RFC 1623.	ManagementFramework
C-MSS-66030	The MSS performance management application service shall be capable of receiving managed object definitions for each managed object.	ManagementFramework
C-MSS-66040	The MSS performance management application service shall be capable of specifying which available performance metrics are to be gathered from each individual managed object.	ManagementFramework MsPmConfig
C-MSS-66050	The MSS performance management application service shall be capable of requesting performance data from each individual managed object:a._at configurable intervalsb._on demand.	MsPmConfig ManagementFramework
C-MSS-66060	The MSS performance management application service shall be capable of receiving requested performance data from ECS components.	ManagementAgent EnterpriseFramework ManagementFramework

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-66070	The MSS Performance Management Application Service shall be capable of receiving unrequested performance data from ECS managed objects.	ManagementAgent EnterpriseFramework ManagementFramework
C-MSS-66080	The MSS performance management application service shall be capable of retrieving the following data for all network component interfaces: a._operational status b._type c._speed d._octets in/out e._packets in/out f._discards in/out g._errors in/out	ManagementFramework
C-MSS-66090	The MSS Performance Management Application Service shall have the capability to collect the following performance information about communication protocol stacks on managed devices: _a._number of transport layer messages received with errors _b._number of transport layer messages requiring retransmission _c._number of transport layer messages received that could not be delivered _d._number of jetwork layer messages received with errors _e._number of network layer messages received that could not be delivered _f._number of network layer messages that were discarded_	ManagementFramework
C-MSS-66100	The MSS performance management application service shall be capable of retrieving the following data for all hosts: a._total CPU utilization b._memory utilization c._physical disk i/o's d._disk storage size e._disk storage used f._number of active processes g._length of run queue h._network i/o's (packets) i._network errors	MsPmApplManager
C-MSS-66120	The MSS performance management application service shall be capable of determining the operational state of all network components, hosts, and peripherals to be: a._on-line b._off-line c._in test mode	ManagementFramework ManagementAgent
C-MSS-66121	The MSS performance management application service shall be capable of determining the operational state of all network components, hosts, and peripherals to be: a. on-line b. off-line c. in test mode d. In maintenance, e. in simulation mode.	MsPmApplManager ManagementFramework
C-MSS-66123	The MSS Performance Management Application Service shall generate requests for performance testing that identify the required resources, purpose, requested priority, required environment, operations impacts and expected results.	ManagementFramework MsPmApplManager



**Table A-1. Requirements Trace (49 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-66130	The MSS performance management application service shall be capable of receiving operational state change notifications from network components, hosts, applications, and peripherals.	MsPmAppIManager ManagementFramework
C-MSS-66135	The MSS Performance Management Application Service shall have the capability to calculate the following statistics for the purpose of supporting RMA analysis for managed objects: a._Mean Down time (MDT) b._Mean Time Between Maintenance (MTBM) _1._Mean Time Between Preventive Maintenance (MTBPM) _2._Mean Time Between Corrective Maintenance (MTBCM) c._Mean Time to Repair (MTTR)	MsPmManager
C-MSS-66137	The MSS Performance Management Application Service shall retain the calculated RMA statistics in a repository accessible for further analysis by the M&O Staff.	MsPmManager
C-MSS-66140	The MSS EMC Performance Management Application Service shall have the capability to request performance data from: a. Site performance management applications b. Other external systems as defined in Section 5.1 of the current version od 304-CD-003.	EcExtSysIFB EnterpriseFramework
C-MSS-66141	The MSS EMC Performance Management Application Service shall have the capability to request performance data from: a. Site performance management applications b. EBnet c. ASTER d. NOAA(SAA) e. Landsat(MMO) f. NSI g. NOLAN.	MsPmSMC EcExtSysIFB
C-MSS-66150	The MSS EMC Performance Management Application Service shall be capable of receiving performance data from: a. Site performance management applications b. Other external systems as defined in Section 5.1 of the current version of 304-CD-003.	EnterpriseFramework

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-66151	The MSS EMC Performance Management Application Service shall be capable of receiving performance data from: a. Site performance management applications b. EBnet c. ASTER d. NOAA(SAA) e. Landsat(MMO) f. NSI g. NOLAN.	EcExtSysIFB MsPmSMC
C-MSS-66160	The MSS EMC Performance Management Application Service shall be capable of receiving summarized performance data from: a. Site performance management applications b. Other external systems as defined in Section 5.1 of the current version 304-CD-003.	MsPmSMC MsPmTrendAnalysis_B
C-MSS-66161	The MSS EMC Performance Management Application Service shall be capable of receiving summarized performance data from: a. Site performance management applications b. EBnet c. ASTER d. NOAA(SAA) e. Landsat(MMO) f. NSI g. NOLAN.	EcExtSysIFB MsPmSMC
C-MSS-66170	The MSS performance management application service shall log ECS performance data pertaining to ECS network components and operating system resources.	EnterpriseFramework ManagementFramework ManagementAgent
C-MSS-66171	The MSS performance management application service shall log ECS performance data pertaining to ECS network components, ECS applications and operating system resources.	ManagementAgent EnterpriseFramework ManagementFramework
C-MSS-66180	The MSS performance management application service shall have the capability to generate the following types of statistics for a configurable period of time for performance data stored in the Management Database:a._averageb._medianc._maximumd._minimume._ratiosf._ratesg._standard deviations.	MsPmApplManager ManagementFramework
C-MSS-66190	The MSS performance management application service shall provide a configurable number of thresholds for each performance metric.	MsPmConfig
C-MSS-66200	The MSS EMC performance management application service shall be capable of creating a list of suggested initial threshold values for each performance metric.	MsPmList

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-66210	The MSS EMC performance management application service shall be capable of sending a list of suggested initial thresholds for each performance metric to the MSS site performance management application service.	MsPmExtSys
C-MSS-66220	The MSS site performance management application service shall be capable of receiving a list of suggested initial thresholds for each performance metric from the MSS EMC performance management application service.	MsPmList
C-MSS-66230	The MSS performance management application service shall allow each performance metric threshold to be configurable.	MsPmConfig EnterpriseFramework
C-MSS-66240	The MSS performance management application service shall be capable of evaluating each performance metric against defined thresholds.	MsPmApplManager ManagementFramework
C-MSS-66250	The MSS performance management application service shall record an event in the local History Log whenever a threshold is crossed.	MsPmEvent
C-MSS-66260	The MSS performance management application service shall provide queries that generate performance statistics from performance data stored in the Management Database.	MsPmApplManager ManagementFramework
C-MSS-66270	The MSS performance management application service shall store generated performance statistics.	MsPmApplManager ManagementFramework
C-MSS-66280	The MSS site performance management application service shall be capable of extracting summarized site status information from logged performance data.	MsPmManager
C-MSS-66290	The MSS site performance management application service shall be capable of sending summarized status information for that site to the MSS EMC performance management application service.	MsPmSMC
C-MSS-66300	The MSS EMC performance management application service shall log received summarized site status.	MsPmSMC
C-MSS-66305	The MSS Performance Management Application Service shall be capable of collecting the following performance data for all ECS-managed processes: a. start time b. stop time c. CPU utilization d. memory utilization e. disk reads f. disk writes	ManagementAgent EnterpriseFramework

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-66310	The MSS performance management application service shall be capable of retrieving the following science algorithm performance data via the Management Data Access Service: a. _algorithm name b. _algorithm version c. _start time d. _stop time e. _CPU utilization f. _memory utilization g. _disk read h. _disk writes	MsPmManager EnterpriseFramework
C-MSS-66320	The MSS Performance Management Application Service shall be capable of receiving the following performance data from the Data Server: a. total order volume b. average elapsed time for Data Server events	EcAgEvent
C-MSS-66330	The MSS Performance Management Application Service shall be capable of receiving the following performance data from Data Processing: a. number of products generated b. product run times c. product CPU times	EcAgEvent
C-MSS-66340	The MSS Performance Management Application Service shall be capable of receiving the following performance data from Ingest: a. ingest volumes b. processing times c. no. of completed requests d. no. of unsuccessful requests	MsPmApplManager EcAgEvent
C-MSS-66500	The MSS Performance Management Application Service shall have the capability to send ECS system management information to ASTER GDS.	EcExtSysIFB MsPmSMC
C-MSS-66505	The MSS Performance Management Application Service shall have the capability to receive ASTER GDS system management information from ASTER GDS.	MsPmSMC EcExtSysIFB
C-MSS-66510	The MSS Performance Management Application Service shall have the capability to send ECS network management information to ASTER GDS.	MsPmSMC EcExtSysIFB
C-MSS-66515	The MSS Performance Management Application Service shall have the capability to receive ASTER GDS network management information from ASTER GDS.	EcExtSysIFB MsPmSMC
C-MSS-66520	The MSS Performance Management Application Service shall have the capability to send requests for ASTER GDS network management information to ASTER GDS.	MsPmSMC EcExtSysIFB
C-MSS-66525	The MSS Performance Management Application Service shall have the capability to receive requests for ECS network management information from ASTER GDS.	MsPmSMC EcExtSysIFB

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-66530	The MSS Performance Management Application Service shall have the capability to send Network Management information to the SAAs.	MsPmSMC EcExtSysIFB
C-MSS-66535	The MSS Performance Management Application service shall have the capability to receive Network Management information from the SAAs.	MsPmSMC EcExtSysIFB
C-MSS-66550	The MSS Performance Management Application Service shall have the capability to send System Management status to the MMO.	MsPmSMC EcExtSysIFB
C-MSS-66555	The MSS Performance Management Application Service shall have the capability to receive System Management status from the MMO.	MsPmSMC EcExtSysIFB
C-MSS-66560	The MSS Performance Management Application Service shall have the capability to query from NSI periodic reports of link utilization and transmission errors, reflecting or summarizing NSI performance measurements over various time intervals.	EcExtSysIFB MsPmSMC
C-MSS-66585	The MSS Performance Management Application Service shall have the capability to receive, from NOLAN, periodic information regarding NOLAN network performance and link utilization.	EcExtSysIFB MsPmSMC
C-MSS-67000	The MSS performance management application service shall be capable of extracting values of performance metrics gathered for a specified managed objects over a configurable period of time from the Management Database.	MsRgTrendAnalysisB MsPmManager
C-MSS-67010	The MSS performance management application service shall be capable of generating a graph of the extracted performance metric values.	MsPmManager MsRgTrendAnalysisB
C-MSS-68000	The MSS performance management application service shall be capable of graphically displaying the operational state of managed objects through the MUI service.	ManagementFramework EnterpriseFramework
C-MSS-68010	The MSS performance management application service shall be capable of displaying M&O staff-selected performance statistics through the MUI in tabular and graphical formats.	MsPmManager ManagementFramework MsRgTrendAnalysisB
C-MSS-68020	The MSS performance management application service shall be capable of printing M&O staff-selected performance statistics.	ManagementFramework MsRgTrendAnalysisB
C-MSS-68030	The MSS performance management application service shall be capable of receiving system resource utilization information requests from the SDPS Data Processing subsystem via the Management Agent Service.	MsPmApplManager

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-68040	The MSS performance management application service shall be capable of providing the following current system resource utilization information to the SDPS Data Processing subsystem via Management Agent Service: a._CPU utilization b._memory utilization c._disk i/o's (per second)	MsPmApplManager
C-MSS-68050	The MSS performance management application service shall be capable of receiving resource utilization information requests from the SDPS Data Server subsystems via Management Agent Service.	MsPmApplManager
C-MSS-68060	The MSS performance management application service shall be capable of providing the following current resource utilization information to the SDPS Data Server subsystem via the Management Agent Service: a._CPU utilization b._memory utilization c._disk I/O's (per second)	MsPmApplManager
C-MSS-68070	The MSS performance management application service shall be capable of receiving resource utilization information requests from the SDPS Client subsystem via the Management Agent Service.	MsPmApplManager
C-MSS-68080	The MSS performance management application service shall be capable of providing the following current resource utilization information to the SDPS Client subsystem via the Management Agent Service. a._CPU utilization b._memory utilization c._disk I/O's (per second)	MsPmApplManager
C-MSS-68090	The MSS Performance Management Application Service shall have the capability to generate reports from collected management data.	MsRgTrendAnalysisB
C-MSS-68100	The MSS Performance Management Application Service shall have the capability to redirect reports to: a._console b._disk file c._printer	MsPmApplManager MsPmManager ManagementFramework
C-MSS-69000	The MSS performance management application service shall maintain operational benchmark test procedures.	MsPmTest
C-MSS-69010	The MSS performance management application service shall receive and maintain operational benchmark test results.	MsPmTest
C-MSS-69020	The MSS performance management application service shall be capable of performing operational benchmark tests.	MsPmTest

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-69030	The MSS performance management application service shall be capable of providing results of benchmark tests and results of predefined tests to the M&O staff for validation.	MsPmTest EnterpriseFramework ManagementFramework
C-MSS-70010	The MSS Security Management Application Service shall provide the capability to create, modify and delete user accounts with the following attributes:a. usernameb. passwordc. group identification coded. user identification codee. login directoryf. command line interpreter_	MsAuthenticationDB OS
C-MSS-70020	The MSS Security Management Application Service shall enable the assignment of user accounts to groups based on the group identification code.	OS DCEACL_EDIT MsAuthenticationDB
C-MSS-70100	The MSS site Security Management Application Service shall provide the capability to set, maintain, and update access control information for ECS resources._	MsScAuthorizationDB DCEACL_EDIT OSACL RouterACLs TCPWrapperConfig
C-MSS-70110	The MSS site Security Management Application Service shall provide the capability to specify privileges for authorized users and user groups for access to ECS resources._	OS HPDCEAccntMgr DCEACL_EDIT MsScAuthorizationDB MsAuthenticationDB OSACL
C-MSS-70120	The MSS site Security Management Application service shall provide the mechanism, for each ECS host, to allow or deny incoming requests from specific hosts to services._	OSACL RouterACLs MsScAuthorizationDB TCPWrapperConfig
C-MSS-70130	The MSS site Security Management Application Service shall provide a command line interface and a GUI for the management of the following security databases:a. _Authentication Database b. _Authorization Databasec. _Network Database	DCEACL_EDIT DCERGY_EDIT HPDCEAccntMgr OS OSACL
C-MSS-70300	The MSS site Security Management Application Service shall have the capability to perform the following types of security tests:a. _password auditingb. _file system integrity checkingc. _auditing of user privilegesd. _auditing of resource access control information	ComplianceTest
C-MSS-70310	The MSS site Security Management Application Service shall have the capability to perform security testing on a periodic and on an interactive basis.	MsScManager
C-MSS-70320	The MSS site Security Management Application Service shall have the capability to send the results of the tests to the EMC Security Management Application Service.	MsScSMC
C-MSS-70330	The MSS EMC Security Management Application Service shall have the capability to request, support, coordinate and maintain security testing for sites.	MsScSMC

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-70340	The MSS EMC Security Management Application Service shall have the capability to request security testing of the sites on a scheduled and an interactive basis	MsScSMC
C-MSS-70350	The MSS EMC Security Management Application Service shall have the capability to receive the results of security tests performed at the sites.	MsScSMC
C-MSS-70400	The MSS EMC Security Management Application Service shall have the capability to receive notifications of security events from the site Security Management Application Services._	MsScSMC
C-MSS-70410	The MSS EMC Security Management Application Service shall have the capability to receive security audit trails from the site Security Management Application Services._	MsScSMC
C-MSS-70420	The MSS EMC Security Management Application Service shall have the capability to analyze security audit trails for the purpose of detecting intrusions._	EnterpriseFramework MsRgTrendAnalysisB
C-MSS-70430	The MSS site Security Management Application Service shall provide the capability to designate a user or a group of users to receive a notification upon the detection of an intrusion, virus or worm.	MsScExtSys MsScSMC EcExtSysIFB
C-MSS-70440	The MSS site Security Management Application Service shall provide the capability to notify designated M&O staff(s) upon the detection of an intrusion, virus or worm.	MsScExtSys MsScSMC EcExtSysIFB
C-MSS-70450	The MSS site Security Management Application Service shall have the capability to detect the following types of intrusions: a._Login failures b._Unauthorized access to ECS resources c._Break-ins_ d._Viruses and worms	TCPWrapperConfig
C-MSS-70460	The MSS site Security Management Application Service shall have the capability of generating a notification within a maximum of five minutes of the detection of an intrusion.	IntrusionDetectionTest
C-MSS-70470	The MSS Security Management Application Service shall have the capability to send ECS system management information to ASTER GDS.	MsScSMC EcExtSysIFB
C-MSS-70472	The MSS Security Management Application Service shall have the capability to receive ASTER GDS system management information from ASTER GDS.	EcExtSysIFB MsScSMC
C-MSS-70474	The MSS Security Management Application Service shall have the capability to send System Management status to the MMO.	MsScSMC EcExtSysIFB



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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-70476	The MSS Security Management Application Service shall have the capability to receive System Management status from the MMO.	EcExtSysIFB MsScSMC
C-MSS-70478	The MSS Security Management Application Service shall have the capability to send to NSI, notification of security breaches at ECS facilities that could affect NSI and other EOISDIS sites.	MsScSMC EcExtSysIFB
C-MSS-70480	The MSS Security Management Application Service shall have the capability to receive from NSI, notification of security breaches at NSI sites or within the NSI network that could potentially affect ECS sites.	MsScSMC EcExtSysIFB
C-MSS-70482	The MSS Security Management Application Service shall have the capability to send to NOLAN, notifications of security breaches at ECS facilities that could affect NOLAN and other EOISDIS sites.	EcExtSysIFB MsScSMC
C-MSS-70484	The MSS Security Management Application Service shall have the capability to receive, from NOLAN, notifications of security breaches at NOLAN sites or within the NOLAN network that could potentially affect ECS sites.	EcExtSysIFB MsScSMC
C-MSS-70500	The MSS EMC Security Management Application Service shall have the capability to coordinate with the site Security Management Application Services, via directives and instructions, the recovery from security compromises._	MsScSMC
C-MSS-70510	The MSS site Security Management Application Service shall, upon the detection of a compromise, isolate the compromised input I/O, and the compromised area's output I/O until the compromise has been eliminated._	TCPWrapperConfig
C-MSS-70515	The MSS Security Management Application Service shall have the capability to manage encrypted information, including keys.	MsScManager
C-MSS-70520	The MSS EMC Security Management Application Service shall provide office automation support tools to enable the generation of directives and instructions for recovery from detected security events._	MsScSMC
C-MSS-70530	The MSS EMC Security Management Application Service shall coordinate, as necessary via directives and instructions, the recovery from security events reported from a site. _	MsScSMC
C-MSS-70600	The EMC Security Management Application Service shall maintain security policies and procedures to include physical security, password management, operational security, data security, privileges, network security and compromise mitigation.	MsScManager

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-70700	The MSS Security Management Application Service shall have the capability to generate intrusion reports on the following: a. _Login failures b. _Unauthorized access to ECS resources c. _Break-ins d. _Viruses and worms	MsScReport
C-MSS-70710	The MSS Security Management Application Service shall have the capability to generate reports from collected management data.	MsScReport
C-MSS-70720	The MSS Security Management Application Service shall have the capability to redirect reports to: a. _console b. _disk file c. _printer	MsScManager
C-MSS-75000	The MSS accountability management service shall provide the capability to maintain a user profile database that stores the following information for each registered user: a. Name b. User ID c. Password information _1. password _2. password expiration date d. Assigned privileges e. Mailing address f. Telephone number g. Product shipping address h. E-mail address i. Organization (optional) j. Project affiliation(s) (optional) _1. project name _2. project principal investigator k. User group	MsAcAddress MsAcUsrProfile MsAcUsrProfileMgr MsAcManagerUI
C-MSS-75001	The MSS accountability management service shall provide the capability to maintain a user profile database that stores the following information for each registered user: a. Name b. User ID c. Password information 1. password 2. password expiration date d. Assigned privileges e. Mailing address f. Telephone number g. Product shipping address h. E-mail address i. Organization (optional) j. Project affiliation(s) (optional) 1. project name 2. project principal investigator k. User group l. Account information	MsAcUsrProfileMgr MsAcManagerUI MsAcUsrProfile MsAcAddress

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-75010	The MSS accountability management service shall be capable of receiving user profile records entered by M&O personnel.	MsAcManagerUI MsAcUsrProfileMgr
C-MSS-75015	The MSS accountability management service shall provide the capability for M&O Staff to modifying and delete user profile records.	MsAcManagerUI
C-MSS-75020	The MSS Accountability Management Service shall create a new user account whenever a new record is added to the user profile database.	MsAcUsrRequestMgr
C-MSS-75025	The MSS Accountability Management Service shall be capable of receiving requests for user profile data from ECS applications.	MsAcUsrProfile
C-MSS-75030	The MSS Accountability Management Service shall be capable of receiving requests for user profile data from M&O operators.	MsAcManagerUI
C-MSS-75035	The MSS Accountability Management Service shall be capable of sending requested user profile data to ECS applications	MsAcUsrProfile MsAcUsrProfileMgr MsAcRegUserDB
C-MSS-75040	The MSS Accountability Management Service shall be capable of sending requested user profile data to M&O operators.	MsAcManagerUI MsAcRegUserDB
C-MSS-75045	The MSS Accountability Management Service shall be capable of receiving requests for the status of a specified data order from M&O operators.	MsAcTrackingUI
C-MSS-75050	The MSS Accountability Management Service shall be capable of receiving requests for user account history data from M&O operators.	MsAcManagerUI
C-MSS-75055	The MSS Accountability Management Service shall be capable of sending requested status of a specified data order to M&O operators.	MsAcTrackingUI
C-MSS-75057	The MSS Accountability Management Service shall be capable of sending requested user account history data to M&O operators.	MsAcRegUserDB MsAcManagerUI
C-MSS-75060	The MSS accountability management service shall provide the capability to maintain a system profile inventory database of ECS software and non product data.	ILMItemB
C-MSS-75070	The system profile inventory database shall store the following information for each inventory entry: Data ID, Data purpose, Data location, Data classification and Data priority.	ILMItemB
C-MSS-75080	The MSS accountability management service shall be capable of receiving new system profile inventory records entered by M&O Staff.	ILMItemB

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-75090	The MSS accountability management service shall provide the capability for M&O Staff to modify and delete system profile inventory records .	ILMItemB
C-MSS-75100	The MSS Accountability Management Service shall have the capability to send user registration data to the MMO.	MsAcUsrProfile
C-MSS-75102	The Accountability Service shall have the capability to receive an account balance status request from the CLS.	MsAcUsrProfile
C-MSS-75105	The Accountability Service shall have the capability to receive user registration requests from the CLS.	MsAcUsrRequestMgr
C-MSS-75110	The MSS Accountability Management Service shall have the capability to receive user registration information from the MMO.	MsAcUsrRequestMgr
C-MSS-75112	The Accountability Service shall have the capability to receive user comment information from the CLS.	MsCsSurveyMgr
C-MSS-75115	The Accountability Service shall have the capability to receive requests for user profile updates from the CLS.	MsAcUsrProfile
C-MSS-75120	The Accountability Service shall have the capability to receive user registration status requests from the CLS.	MsAcUsrRequestMgr
C-MSS-75125	The Accountability Service shall have the capability to receive user comment survey requests from the CLS.	MsCsSurveyMgr
C-MSS-75130	The Accountability Service shall have the capability to send user registration information to the CLS.	MsAcUsrProfile
C-MSS-75135	The Accountability Service shall have the capability to send user registration status to the CLS.	MsAcUsrRequestMgr
C-MSS-75140	The Accountability Service shall have the capability to send user profile information to the CLS.	MsAcUsrProfile
C-MSS-75145	The Accountability Service shall have the capability to send account status to the CLS.	MsAcUsrProfile
C-MSS-75150	The Accountability Service shall have the capability to send user comment surveys to the CLS.	MsCsSurveyMgr
C-MSS-75155	The Accountability Service shall have the capability to receive data delivery records from the INS.	EcRequest
C-MSS-75160	The Accountability Service shall have the capability to receive data delivery notices from the INS.	EcRequest
C-MSS-75165	The Accountability Service shall have the capability to receive TDRSS schedule requests from the DSS.	EcRequest

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-76000	The MSS accountability management service shall be capable of retrieving user activity data (user id, type of user activity, data items used (browsed, searched, or ordered), and date/time of activity) from records generated by the SDPS Data Server, Data Processing, and Client subsystems.	ManagementRDBMS
C-MSS-76005	The MSS Accountability Management Service shall be capable of retrieving user history data for a specified managed resource.	ManagementRDBMS
C-MSS-76010	The MSS accountability management service shall be capable of querying via the Management Data Access service user activity data stored in the Management Database.	ManagementRDBMS
C-MSS-76020	The MSS accountability management service shall be capable of retrieving all activities associated with a particular user or data item via the Management Data Access service.	MsRgRepWriterB
C-MSS-76030	The MSS Accountability Management Service shall log, for each ECS host, incoming access attempts via: a. telnet b. FTP c. rlogin d. finger.	MsRgRepWriterB
C-MSS-76040	The MSS Accountability Management Service shall be capable of reporting audit information to M&O staff via the MUI service.	MsAcAuditTrail
C-MSS-77000	The MSS accountability management service shall be capable of retrieving data processing information (instrument used and date/time of ingest or algorithm used (name and version) and date/time of processing) from records generated by the SDPS Data Processing subsystem.	MsRgRepWriterB
C-MSS-77005	The MSS Accountability Management Service shall be capable of retrieving data processing information for a specified managed resource.	MsRgRepWriterB
C-MSS-77010	The MSS accountability management service shall be capable of querying via the Management Data Access service all data processing information stored in the Management database.	MsRgRepWriterB
C-MSS-77030	The MSS accountability management service shall be capable of retrieving all data processing information logged for a specified data item.	MsRgRepWriterB
C-MSS-77040	The MSS accountability management service shall be capable of accepting queries for the status of a particular ordered data item from the SDPS Client subsystem.	MsAcTrackingMgr

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-77050	The MSS accountability management service shall be capable of interfacing with the SDPS subsystems to determine the status of an ordered data item to be: a. Request in queue for processing b. Request currently being processed c. Request successfully processed d. Error in request processing e. Error in request	EcSubOrder MsAcTrackingMgr MsAcTrackingUI EcOrder
C-MSS-77060	The MSS accountability management service shall be capable of reporting the requested status of an ordered data item to the SDPS Client subsystem.	MsAcTrackingUI
C-MSS-77070	The MSS accountability management service shall be capable of searching local history logs to find processing data for an ordered data item.	MsAcTrackingUI
C-MSS-77080	The MSS Accountability Management Service shall have the capability to generate reports from collected management data.	MsAcAuditTrail MsAcReport
C-MSS-77090	The MSS Accountability Management Service shall have the capability to redirect reports to: a. _console b. _disk file c. _printer	MsRgRepWriterB MsAcManager
C-MSS-78010	The MSS Billing/Accounting Application Service (BAAS) functional requirements shall be consistent with the functional requirements defined by the Federal Financial Management System Requirements issued by the Joint Financial Management Improvement Program (JFIMP)	MsBaBAASB MsAcTrackingDB
C-MSS-78030	The MSS BAAS shall provide the following major functions: billing & invoicing, accounts receivable, accounts payable, collections, general ledger, cost accounting, and reporting.	MsAcTrackingDB MsBaBAASB
C-MSS-78100	The MSS BAAS Billing & Invoicing function shall generate user account billing statements as well as billing invoices.	MsBaBAASB
C-MSS-78110	The MSS BAAS Billing & Invoicing function shall generate user account billing statements and billing invoices on paper as well as electronic formats.	MsBaBAASB
C-MSS-78120	The MSS BAAS Billing & Invoicing function shall price user activity records using standardized pricing tables.	MsBaBAASB
C-MSS-78130	The MSS BAAS Billing & Invoicing function shall apply credits and adjustments given to a user account over a billing period.	MsBaBAASB
C-MSS-78140	The MSS BAAS Billing & Invoicing function shall apply any "pre-paid" amounts already existing in an account to current user account charges.	MsBaBAASB

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-78150	The MSS BAAS Billing & Invoicing function shall accept special rates for specific users/groups.	MsBaBAASB
C-MSS-78160	The MSS BAAS Billing & Invoicing function shall apply any past due amounts to an invoice.	MsBaBAASB
C-MSS-78180	The MSS BAAS Billing & Invoicing function shall provide the capability to consolidate multiple user accounts into a single group account, due from one paying location.	MsBaBAASB
C-MSS-78190	The MSS BAAS Billing & Invoicing function shall generate statement and billing invoice reprints upon request.	MsBaBAASB
C-MSS-78200	The MSS BAAS Billing & Invoicing function shall be capable of accessing account activity information from the ECS Management Database to price billable ECS data product request.	MsBaBAASB
C-MSS-78220	The MSS BAAS Billing & Invoicing function shall have access to account billing information from the ECS Management Database (e.g. billing address, bill cycle, payment option).	MsBaBAASB
C-MSS-78240	The MSS BAAS Billing & Invoicing function shall collect science user activity information from the ECS Management Database daily.	MsBaCostIFB
C-MSS-78260	The MSS BAAS Billing & Invoicing function shall provide the capability to generate bill invoices in multiple billing cycles.	MsBaBAASB
C-MSS-78270	The MSS BAAS Billing and Invoicing function shall make available to the DSS, pricing algorithms it maintains in standard pricing tables, for the purposes of price estimation.	MsBaPriceTableB
C-MSS-78300	The MSS BAAS Accounts Receivable (AR) function shall maintain current updated individual and summary user account balances.	MsBaBAASB
C-MSS-78310	The MSS BAAS Accounts Receivable (AR) function shall have the capability to reference all update transactions to the appropriate supporting documents or resources (e.g., billing invoice number).	MsBaBAASB
C-MSS-78320	The MSS BAAS Accounts Receivable (AR) function shall allow transactions to be entered in batches.	MsBaBAASManagerB
C-MSS-78330	The MSS BAAS Accounts Receivable (AR) function shall accept manual entry of adjustments and transactions, bypassing batch requirements.	MsBaBAASManagerB
C-MSS-78340	The MSS BAAS Accounts Receivable (AR) function shall record complete and partial receipts of payments.	MsBaBAASB
C-MSS-78350	The MSS BAAS Accounts Receivable (AR) function shall provide the ability to apply receipts to more than one receivable.	MsBaBAASB

**Table A-1. Requirements Trace (64 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-78360	The MSS BAAS Accounts Receivable (AR) shall post credit balances and adjustments to user accounts.	MsBaBAASB
C-MSS-78370	The MSS BAAS Accounts Receivable (AR) function shall accept "pre-paid accounts."	MsBaBAASB
C-MSS-78380	The MSS BAAS Accounts Receivable (AR) function shall deduct amounts due from "pre-paid" accounts and show balance remaining.	MsBaBAASB
C-MSS-78390	The MSS BAAS Accounts Receivable (AR) function shall provide the ability to flag "pre-paid" accounts with no balance remaining.	MsBaBAASB
C-MSS-78400	The MSS BAAS Accounts Receivable (AR) function shall accept purchase orders from users as form of payment.	MsBaBAASManagerB
C-MSS-78410	The MSS BAAS Accounts Receivable (AR) function shall process refunds for deposits taken on service.	MsBaBAASManagerB
C-MSS-78420	The MSS BAAS Accounts Receivable (AR) function shall process refunds for overpayments on user charges.	MsBaBAASManagerB
C-MSS-78425	The MSS BAAS Accounts Receivable (AR) function shall process refunds for data purchases returned by the user.	MsBaBAASB
C-MSS-78430	The MSS BAAS Accounts Receivable (AR) function shall provide the capability to apply refunds to outstanding balances or to credit an account for future amounts due if users request it.	MsBaBAASManagerB
C-MSS-78440	The MSS BAAS Accounts Receivable (AR) function shall provide the capability to re-establish a receivable for checks returned due to insufficient funds.	MsBaBAASManagerB
C-MSS-78450	The MSS BAAS Accounts Receivable (AR) function shall support automatic balancing of the accounts receivable master file.	MsBaBAASB
C-MSS-78460	The MSS BASS Accounts Receivable (AR) shall monitor the aging of individual account receivables.	MsBaBAASB
C-MSS-78480	The MSS BAAS Accounts receivable (AR) function shall maintain a history for each account.	MsBaBAASB
C-MSS-78490	The MSS BAAS Accounts Receivable (AR) function shall identify each transaction via reference numbers.	MsBaBAASB
C-MSS-78500	The MSS BAAS Accounts Receivable (AR) function shall provide the capability to purge accounts, removing closed accounts to a history file.	MsBaBAASB
C-MSS-78510	The MSS BAAS Accounts Receivable (AR) function shall have the capability to receive accounts receivable data for sales conducted over-the-counter at a site.	MsBaBAASManagerB



**Table A-1. Requirements Trace (65 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-78520	The MSS BAAS Accounts Receivable (AR) function shall provide the capability to communicate revenue information to a NASA accounting system for reporting and deposit.	MsBaBAASManagerB
C-MSS-78530	The MSS BAAS Accounts Receivable (AR) function shall submit user refund requests to a NASA accounting system.	MsBaBAASManagerB
C-MSS-78540	The MSS BAAS Accounts Receivable (AR) function shall make account balance information available to science users upon a CLS request.	MsBaBAASB
C-MSS-78550	The MSS BAAS Accounts Receivable (AR) function shall produce an end-of-period "trial balances" showing an account's opening balance, period activity, and closing balance.	MsBaBAASB MsBaReportsB
C-MSS-78560	The MSS BAAS Accounts Receivable (AR) function shall provide reports indicating summary of accounts receivable activity for a specific period.	MsBaBAASB MsBaReportsB
C-MSS-78570	The MSS BAAS Accounts Receivable (AR) function shall provide an exception report listing all accounts with credit balances.	MsBaBAASB MsBaReportsB
C-MSS-78580	The MSS BAAS Accounts Receivable (AR) function shall identify receivables which have been reduced by means other than cash collections (e.g., adjustments),	MsBaReportsB MsBaBAASB
C-MSS-78590	The MSS BAAS Accounts Receivable (AR) function shall produce an account receivable aging report.	MsBaBAASB MsBaReportsB
C-MSS-78600	The MSS BAAS Accounts Receivable (AR) function shall provide upon request a batch listing of all activity and items in a particular batch.	MsBaReportsB MsBaBAASB
C-MSS-78610	The MSS BAAS Accounts Receivable (AR) function shall provide upon request an account payment profile.	MsBaBAASB MsBaReportsB
C-MSS-78700	The MSS BAAS Accounts Payable (AP) function shall maintain vendor/payee master files.	MsAcCostAcctReport MsBaBAASB
C-MSS-78710	The MSS BAAS Accounts Payable (AP) function shall provide the capability to update vendor/payee master files.	MsAcCostAcctReport MsBaBAASManagerB
C-MSS-78720	The MSS BAAS Accounts Payable (AP) function shall maintain payee account balances.	MsAcCostAcctReport MsBaBAASB
C-MSS-78730	The MSS BAAS Accounts Payable (AP) function shall maintain payee account information to include: a. payee bank account information. b. payee taxpayer identification number and payee type. c. contract terms (e.g., net terms, terms that use discounting, end-of-month terms).	MsAcCostAcctReport MsBaBAASB
C-MSS-78740	The MSS BAAS Accounts Payable (AP) function shall provide the capability to establish "pre-paid" accounts.	MsBaBAASManagerB MsAcCostAcctReport

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-78750	The MSS BAAS Accounts Payable (AP) function shall provide the capability to establish temporary accounts (e.g., when issuing a refund to a user account).	MsBaBAASManagerB MsAcCostAcctReport
C-MSS-78760	The MSS BAAS Accounts Payable (AP) function shall support batch entry of invoices.	MsAcCostAcctReport MsBaBAASManagerB
C-MSS-78770	The MSS BAAS Accounts Payable (AP) function shall support matching of vendor invoices to purchase order line items.	MsAcCostAcctReport MsBaBAASManagerB
C-MSS-78780	The MSS BAAS Accounts Payable (AP) function shall support matching of vendor invoices to inventory receiving reports.	MsBaBAASManagerB MsAcCostAcctReport
C-MSS-78790	The MSS BAAS Accounts Payable (AP) function shall provide the capability to indicate discrepancies between quantity, type, and cost of goods ordered, received, and invoiced.	MsBaBAASManagerB MsAcCostAcctReport
C-MSS-78810	The MSS BAAS Accounts Payable (AP) function shall provide on-line voucher approval by M&O staff.	MsBaBAASManagerB MsAcCostAcctReport
C-MSS-78820	The MSS BAAS Accounts Payable (AP) function shall provide re-routing capabilities for vouchers which are not approved the first time.	MsBaBAASManagerB MsAcCostAcctReport
C-MSS-78830	The MSS BAAS Accounts Payable (AP) function shall provide the ability to suspend a voucher from further processing.	MsAcCostAcctReport MsBaBAASManagerB
C-MSS-78840	The MSS BAAS Accounts Payable (AP) function shall provide the capability to void a voucher	MsAcCostAcctReport MsBaBAASManagerB
C-MSS-78850	The MSS BAAS Accounts Payable (AP) function shall allow M&O staff to break up a voucher into multiple payments when charges on invoice have different due dates.	MsBaBAASManagerB MsAcCostAcctReport
C-MSS-78860	The MSS BAAS Accounts Payable (AP) function shall provide the capability to combine several vouchers for the same vendor into a single payment.	MsAcCostAcctReport MsBaBAASB
C-MSS-78870	The MSS BAAS Accounts Payable (AP) function shall provide the capability to post payments to "pre-paid" accounts automatically.	MsAcCostAcctReport MsBaBAASB
C-MSS-78880	The MSS BAAS Accounts Payable (AP) function shall assign a status code to each voucher to track its progress through the system.	MsAcCostAcctReport MsBaBAASB
C-MSS-78900	The MSS BAAS Accounts Payable (AP) function shall allow an on-line query and searching of the voucher history file.	MsBaBAASManagerB MsAcCostAcctReport

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-78910	The MSS BAAS Accounts Payable (AP) function shall allow orders to be re-opened by M&O staff after final payment has been made.	MsBaBAASManagerB
C-MSS-78920	The MSS BAAS Accounts Payable (AP) function shall have the capability to access purchase order line items information from the ECS Management Database to match to vendor invoices before authorizing payment of invoices.	MsBaBAASB
C-MSS-78930	The MSS BAAS Accounts Payable (AP) function shall have the capability to access inventory receiving reports information from the ECS Management Database to match to vendor invoices before authorizing payment of invoices.	MsBaBAASB
C-MSS-78940	The MSS BAAS Accounts Payable (AP) function shall transmit vendor invoice payment requests and user refund payment requests to a NASA accounting system	MsBaBAASManagerB
C-MSS-78950	The MSS BAAS Accounts Payable (AP) function shall prepare detailed and summary listings of amounts payable for a specific period of time.	MsBaBAASB MsBaReportsB
C-MSS-78960	The MSS BAAS Accounts Payable (AP) function shall provide reporting of all unreconciled and outstanding items.	MsBaReportsB MsBaBAASB
C-MSS-78970	The MSS BAAS Accounts Payable (AP) function shall a provide vendor master list.	MsBaBAASB MsBaReportsB
C-MSS-79100	The MSS BAAS Collections function shall identify delinquent accounts; those accounts which have violated ECS-determined account aging parameters.	MsBaBAASB
C-MSS-79110	The MSS BAAS Collections function shall provide the capability to allow ECS-defined collections parameters.	MsBaBAASB
C-MSS-79120	The MSS BAAS Collections function shall provide the capability to override specific accounts from the collections process.	MsBaBAASManagerB
C-MSS-79140	The MSS BAAS Collections function shall generate custom and form dunning letters to delinquent accounts.	MsBaBAASB
C-MSS-79150	The MSS BAAS Collections function shall keep log of contacts and contact attempts with users in delinquent accounts.	MsBaBAASManagerB
C-MSS-79160	The MSS BAAS Collections function shall record payment arrangements made with users.	MsBaBAASManagerB
C-MSS-79170	The MSS BAAS Collections function shall initiate service suspension, cancellation, and restoration as appropriate.	MsBaBAASManagerB
C-MSS-79180	The MSS BAAS Collections function shall calculate amounts declared non-collectible (write-offs).	MsBaBAASB

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-79190	The MSS BAAS Collections function shall record write-off amounts.	MsBaBAASB
C-MSS-79200	The MSS BAAS Collections function shall save all collections history information on particular accounts.	MsBaBAASB
C-MSS-79500	The MSS BAAS General Ledger (GL) function shall set up a chart of accounts.	MsBaBAASManagerB
C-MSS-79510	The MSS BAAS General Ledger (GL) function shall accept entries via balanced batches.	MsBaBAASB
C-MSS-79520	The MSS BAAS General Ledger (GL) function shall accept direct entries by-passing the batches.	MsBaBAASManagerB
C-MSS-79530	The MSS BAAS General Ledger (GL) function shall update and edit each account on-line.	MsBaBAASB
C-MSS-79540	The MSS BAAS General Ledger (GL) function shall provide on-line inquiry capability into account balances.	MsBaBAASManagerB
C-MSS-79550	The MSS BAAS General Ledger (GL) function shall provide the capability for M&O staff to establish standardized transactions.	MsBaBAASManagerB
C-MSS-79560	The MSS BAAS General Ledger (GL) function shall provide the capability for M&O staff to modify standardized transactions.	MsBaBAASManagerB
C-MSS-79570	The MSS BAAS General Ledger (GL) function shall accommodate future period transaction entries.	MsBaBAASB
C-MSS-79580	The MSS BAAS General Ledger (GL) function shall accommodate prior period transaction entries for all periods that are open to posting.	MsBaBAASB
C-MSS-79590	The MSS BAAS General Ledger (GL) function shall provide the capability to automatically create new accounts.	MsBaBAASB
C-MSS-79600	The MSS BAAS General Ledger (GL) function shall perform end-of-period process (trial balances), accruals, and consolidation processes under the control of authorized staff.	MsBaBAASManagerB
C-MSS-79610	The MSS BAAS General Ledger (GL) function shall provide the capability for multiple preliminary end-of-period closings before final closing.	MsBaBAASB
C-MSS-79620	The MSS BAAS General Ledger (GL) function shall provide the capability to post current period data during preliminary end-of-period closings.	MsBaBAASB
C-MSS-79630	The MSS BAAS General Ledger (GL) function shall use standardized transactions identified by reference codes to control transaction editing, posting, and updating of information.	MsBaBAASB

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-79640	The MSS BAAS General Ledger (GL) function shall maintain a documented trail of any changes conducted by authorized staff on out-of-balance accounts.	MsBaBAASManagerB
C-MSS-79650	The MSS BAAS General Ledger (GL) function shall provide the capability to move accounts to a history file.	MsBaBAASB
C-MSS-79660	The MSS BAAS General Ledger (GL) function shall provide the capability to re-open closed accounts when required.	MsBaBAASManagerB
C-MSS-79670	The MSS BAAS General Ledger (GL) function shall provide the capability to archive data needed for comparative analysis and presentation of historical information.	MsBaBAASB
C-MSS-79690	The MSS BAAS General Ledger (GL) function shall provide end-of-period reports (e.g., end-of-month, end-of-quarter, end-of-year).	MsBaBAASB MsBaReportsB
C-MSS-79700	The MSS BAAS Cost Accounting function shall have the capability to receive product cost information from the MMO.	MsBaCostIFB MsAcTrackingDB
C-MSS-79760	The MSS BAAS Cost Accounting function shall provide a trail to assign identifiable sources to all resource unit costs.	MsBaCostIFB MsAcTrackingDB
C-MSS-79780	The MSS BAAS Cost Accounting function shall provide the capability to assign resource unit costs to processes using authorized cost algorithms.	MsBaBAASB MsAcTrackingDB
C-MSS-79790	The MSS BAAS Cost Accounting function shall provide the capability to assign resource unit costs to ECS products using authorized cost algorithms.	MsAcTrackingDB MsBaBAASB
C-MSS-79800	The MSS BAAS Cost Accounting function shall provide the capability to assign resource unit costs to serve different users.	MsBaBAASB MsAcTrackingDB
C-MSS-79810	The MSS BAAS Cost Accounting function shall provide the capability to establish historical accounts of resource unit costs assigned to individual users.	MsBaBAASB
C-MSS-79820	The MSS BAAS Cost Accounting function shall provide the capability to establish historical accounts of resource unit costs assigned to user groups.	MsAcTrackingDB MsBaBAASB
C-MSS-79830	The MSS BAAS Cost Accounting function shall provide the capability to establish historical accounts to track the resource unit costs assigned to different processes.	MsBaBAASB
C-MSS-79850	The MSS BAAS Cost Accounting function shall have the capability to access resource unit cost information from the ECS Management Database to determine costs consumed to serve different users.	MsAcTrackingDB MsBaCostIFB

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-79860	The MSS BAAS Cost Accounting function shall have the capability to access resource unit cost from the ECS Management Database to enable ECS to allocate costs to different processes and products.	MsBaCostIFB MsAcTrackingDB
C-MSS-79880	The MSS BAAS Cost Accounting function shall provide reports assigning resource unit costs to identifiable processes.	MsBaBAASB MsAcTrackingDB MsBaReportsB
C-MSS-79890	The MSS BAAS Cost Accounting function shall provide reports identifying resource unit costs traceable to particular science users/groups.	MsBaBAASB MsBaReportsB MsAcTrackingDB
C-MSS-79900	The MSS BAAS Reporting function shall provide standard automated financial statements and summary reports.	MsBaBAASB MsBaReportsB
C-MSS-79930	The MSS BAAS Reporting function shall report data in accordance with accounting standards recommended by the Federal Accounting Standards Advisory Board (FASAB) and issued by the Director of OMB.	MsBaReportsB MsBaBAASB
C-MSS-79940	The MSS BAAS Reporting function shall support the following report formats a. hard copy b. on-line inquiries c. extract data files d. disk	MsBaBAASB MsBaReportsB
C-MSS-79960	The MSS BAAS Reporting function shall maintain prior periods reporting data for future consultation and comparative analysis.	MsBaBAASB
C-MSS-79970	The MSS BAAS Reporting function shall provide the capability for the reformatting of reports to tailor a report to a user's specific needs.	MsBaReportsB MsBaBAASB
C-MSS-79980	The MSS BAAS Reporting function shall allow the transfer of information to other applications outside of the Billing/ Accounting Application Service (BAAS).	MsBaBAASB MsBaReportsB
C-MSS-87500	The Physical Configuration Management Service shall be capable of importing floor plans from existing files .	PhysicalConfigurationManager
C-MSS-87510	The Physical Configuration Management Service shall provide a graphical interface for adding to and editing the existing floor plan.	PhysicalConfigurationManager
C-MSS-87520	The Physical Configuration Management Service shall be capable, through interfacing with the ECS Management framework, of determining and storing information regarding physical components.	PhysicalConfigurationManager

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-87530	The Physical Configuration Management Service shall be capable of determining and storing the following information regarding physical components: a. physical device identification b. physical device information c. physical device location d. physical device status	PhysicalConfigurationManager
C-MSS-87540	The Physical Configuration Management Service shall have the capability to augment the information obtained from ECS Management framework on each component with additional information.	PhysicalConfigurationManager
C-MSS-87550	The Physical Configuration Management Service shall have the capability to allow the entry and storage of information regarding additional physical components that cannot be discerned through the ECS Management framework.	PhysicalConfigurationManager
C-MSS-87560	The Physical Configuration Management Service shall provide a graphical interface for viewing the physical location of system components on the floor plans.	PhysicalConfigurationManager
C-MSS-87570	The Physical Configuration Management Service shall provide a graphical interface for changing the location of the system components.	PhysicalConfigurationManager
C-MSS-87580	The Physical Configuration Management Service shall be capable of maintaining the following information for all of the physical system components: a. Inventory data (name, purchase date, purchase price, installation date, manufacturer, serial number, physical location) b. Network data (network location, protocols) c. Maintenance data (maintenance date)	PhysicalConfigurationManager
C-MSS-87590	The Physical Configuration Management Service shall be capable of interfacing with the Management Database in order to store and retrieve data.	PhysicalConfigurationManager
C-MSS-87600	The Physical Configuration Management Service shall provide a standard set of reports against this data.	PhysicalConfigurationManager
C-MSS-87610	The Physical Configuration Management Service shall provide the ability to produce custom reports against this data.	PhysicalConfigurationManager
C-MSS-87620	The Physical Configuration Management Service shall provide tight integration with the Trouble Ticketing (TT) System including allowing direct access of the TT through the Physical Configuration Management Interface.	PhysicalConfigurationManager

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-87630	The Physical Configuration Management Service shall provide the ability to interface with the ECS Management framework to capture status information on each component.	PhysicalConfigurationManager
C-MSS-87640	The Physical Configuration Management Service shall provide the ability to display the status obtained above within the graphical interface.	PhysicalConfigurationManager
C-MSS-90020	The DBMS shall support a client-server design paradigm with distributed data allocation.	ManagementRDBMS
C-MSS-90030	The DBMS shall provide security access control based upon userid, role and privileges for the following: a._database b._database object c._database operations	ManagementRDBMS
C-MSS-90060	The DBMS shall provide an SQL interface with query, update, and administrative functions capabilities.	ManagementRDBMS
C-MSS-90070	The DBMS shall be in compliance with the SQL-2 of Federal Information Processing System Publication (FIPS PUB) 127-1.	ManagementRDBMS
C-MSS-90080	The DBMS shall support mathematical operations to generate statistics from management data to include: a._average b._maximum c._minimum d._standard deviation e._sum f._count g._variance	ManagementRDBMS
C-MSS-90120	The DBMS shall be compatible with the ECS management framework to support the import of the ECS management framework data.	ManagementRDBMS
C-MSS-90140	The DBMS shall support, or be accessed via, CSS session-establishment services.	ManagementRDBMS
C-MSS-90150	The DBMS shall support access structures (i.e., single-level indexes, multilevel indexes) to improve the efficiency of retrieval of management data.	ManagementRDBMS
C-MSS-90160	The DBMS shall support features in compliance with X/ Open environment to include the following: a. Hardware independence b. Operating systems independence c. Network protocols independence	ManagementRDBMS



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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-90170	The DBMS shall provide the following bulk data load capabilities: a. direct writes from data files to database b. loading of files containing fixed and variable length records c. incremental bulk load d. Maintain indexes during data loads	ManagementRDBMS
C-MSS-90180	The DBMS shall provide the following database backup capabilities: _a. Entire database _b. Incremental data _c. User specified database items.	ManagementRDBMS
C-MSS-90190	The DBMS shall provide capabilities for specifying frequency, time, and type of backups.	ManagementRDBMS
C-MSS-90200	The DBMS shall perform on-line disk management functions to include: a. Relocation of database files to different disks b. Expansion of database size by adding new physical data files to it on-line c. Dynamic pre-allocation of contiguous space for tables d. Database objects and indexes can span physical files e. Database objects and indexes can exist on different disks	ManagementRDBMS
C-MSS-90210	The DBMS shall support the following features: a. Data compression of nulls and variable length character strings, and indexes b. Space reclaimed from deleted records automatically c. Variable-length column storage	ManagementRDBMS
C-MSS-90230	The DBMS shall provide a transaction roll backward capability to a specified time or state: a. Restore a database b. Restore all or operator selected database objects of any database	ManagementRDBMS
C-MSS-90240	The DBMS shall provide for automatic database recovery including a means to: a. automatically restore undamaged portions of a database and recover work in progress after a system or component failure b. achieve dynamic backout of database modifications, performed by a failing transaction, that does not affect separate, concurrent tasks	ManagementRDBMS
C-MSS-90260	The DBMS shall provide a capability to export, archival, and restore a database.	ManagementRDBMS
C-MSS-90280	The DBMS shall provide the capability to issue and record a database checkpoint.	ManagementRDBMS

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-90290	The DBMS shall provide an audit trail of chronological activities in the database.	ManagementRDBMS
C-MSS-90500	The Report Generator shall be compatible with the DBMS.	MsRgRepWriterB ManagementRDBMS
C-MSS-90510	The Report Generator shall provide a Motif based Graphical User Interface (GUI) for creating ad hoc reports.	MsRgRepWriterB ManagementRDBMS
C-MSS-90520	The Report Generator shall have the capability to generate ad hoc reports from management data maintained in the DBMS.	MsRgRepWriterB ManagementRDBMS
C-MSS-90530	The Report Generator shall provide the capability to format reports to include the report: a._title b._header c._footer d._page number e._date/time of report	MsRgRepWriterB ManagementRDBMS
C-MSS-90570	The Report Generator shall have the capability to generate charts and graphs (e.g., bar, pie, line, etc.) from management data maintained in the DBMS.	MsRgRepWriterB ManagementRDBMS
C-MSS-90600	The Report Generator shall provide the capability to redirect generated reports to: a._console b._disk file c._printer	ManagementRDBMS MsRgRepWriterB
C-MSS-91010	The MSS Office Automation word processing capability shall facilitate the: a._preparation, revision, and recording of documents, messages, reports, and data b._import, transformation, and editing of documents produced by other word processing packages c._insertion of worksheet and graphic images into documents, messages, and reports d._transfer of document, message, and report information to spreadsheet and graphics applications e._printing of documents, messages, reports, and data	MLCI ManagementRDBMS MCI
C-MSS-91012	The MSS Office Automation word processing capability shall be capable of importing from ASCII text and RTF formats.	MCI MLCI
C-MSS-91015	The MSS Office Automation word processing capability shall be capable of exporting to Postscript, ASCII text, and RTF formats.	MCI MLCI

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-91020	The MSS Office Automation shall provide a spreadsheet capability that:a._simulates and displays an accountant's worksheetb._enables revisions and calculations on the displayed worksheet's datac._enables transfer of the worksheet data to database, word processing and graphics applicationsd._enables printing of worksheet information.	MCI ManagementRDBMS MLCI
C-MSS-91025	The MSS Office Automation spreadsheet capability shall be capable of importing from and exporting to ASCII text and Excel formats.	MCI MLCI
C-MSS-91030	The MSS Office Automation shall provide a graphics capability that enables: a._the development, modification, recording, and printing of graphic images b._the transfer of graphics images to word processing documents, messages, and reports.	MCI MLCI ManagementRDBMS
C-MSS-91035	The MSS Office Automation graphics capability shall be capable of importing from and exporting to Postscript and GIF formats.	MCI
C-MSS-92010	The MSS Report Generation Service shall be capable of generating standard and ad-hoc reports and queries on all or portions of the management and related data maintained in the management database.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92020	The MSS Report Generation Service shall provide a Motif based GUI workbench for use by database specialist M&O staff in generating standard and ad-hoc reports and queries.	MsRgUIMgrB MsRgRepWriterB
C-MSS-92030	The MSS Report Generation Service shall provide an HTML based user interface for use by non-database specialists on the M&O staff in requesting standard reports.	MsRgUIMgrB
C-MSS-92040	The MSS Report Generation Service shall be capable of outputting generated reports to the user's console, a file, or a printer	MsRgUIMgrB MsRgRepWriterB
C-MSS-92050	The MSS Report Generation Service shall be capable of outputting report query results to a file in a tabular format which can be imported by analysis tools such as spreadsheets	MsRgRepWriterB MsRgUIMgrB
C-MSS-92060	The MSS Report Generation Service shall be capable of outputting reports to a file in an HTML compatible format.	MsRgRepWriterB MsRgUIMgrB

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-92070	The MSS Report Generation Service shall be capable of generating an Enhancement Proposal Status Report containing the status of proposed enhancements including: a. name b. description c. rationale d. impacts e. cost to implement f. implementation milestone schedule	MsRgRepWriterB
C-MSS-92080	The MSS Report Generation Service shall be capable of generating a Routine Data Production Performance Detail Report itemizing scheduled vs actual times for data collection, processing, retrieval and delivery along with: a. reason for schedule variance b. data quality c. user feedback	MsRgStandMgmtRepB MsRgUIMgrB MsRgRepWriterB
C-MSS-92090	The MSS Report Generation Service shall be capable of generating a Routine Data Production Performance Summary Report containing statistical rollups of scheduled vs actual deviations, data quality, and user feedback for data collection, processing, retrieval, and delivery of routine production data.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92100	The MSS Report Generation Service shall be capable of generating a User Requested Data Production Performance Detail Report containing scheduled vs actual times for data collection, processing, retrieval and delivery along with: a. reason for schedule variance b. data quality c. user feedback	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92110	The MSS Report Generation Service shall be capable of generating a User Requested Data Production Performance Summary Report containing statistical rollups of scheduled vs actual deviations, data quality, and user feedback for data collection, processing, retrieval, and delivery of routine production data	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92120	The MSS Report Generation Service shall be capable of generating a Ground Operations Activity Performance Detail Report containing scheduled vs actual times for ground events such as maintenance, training, reconfiguration. The report shall detail: a. reason for schedule variance b. user feedback	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92130	The MSS Report Generation Service shall be capable of generating a Ground Operations Event Performance Summary Report containing statistical rollups of scheduled vs actual deviations for ground events such as maintenance, testing, reconfiguration.	MsRgStandMgmtRepB MsRgUIMgrB MsRgRepWriterB

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-92140	The MSS Report Generation Service shall be capable of generating a Product Generation Status Detail Report containing the status of all product processing/reprocessing and storage.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92150	The MSS Report Generation Service shall be capable of generating a Product Generation Status Summary Report containing the percent distribution of product generation work within each processing state.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92160	The MSS Report Generation Service shall be capable of generating a Resource Performance Report containing: a. Availability b. Reason for downtime c. Utilization d. Indication of compliance with performance criteria. e. Short and long term trend analysis and capacity planning results	MsRgRepWriterB MsRgUIMgrB MsRgStandMgmtRepB
C-MSS-92170	The MSS Report Generation Service shall be capable of generating a CPU Load Report graphically depicting the average number of jobs in the run queue over the last 1, 5, and 15 minute period for each selected node.	ManagementFramework MsRgUIMgrB MsRgStandMgmtRepB
C-MSS-92180	The MSS Report Generation Service shall be capable of generating an Interface Traffic Report graphically plotting network packet statistics in real-time for the operator selected SNMP node(s).	MsRgStandMgmtRepB MsRgUIMgrB ManagementFramework
C-MSS-92190	The MSS Report Generation Service shall be capable of generating an Ethernet Traffic Report graphically plotting network packet statistics in real-time for the operator selected SNMP node(s).	MsRgStandMgmtRepB MsRgUIMgrB ManagementFramework
C-MSS-92200	The MSS Report Generation Service shall be capable of generating an SNMP Traffic Report graphically plotting network packet statistics in real-time for the operator selected SNMP node(s).	ManagementFramework MsRgUIMgrB MsRgStandMgmtRepB
C-MSS-92210	The MSS Report Generation Service shall be capable of generating an SNMP Operations Report graphically plotting the number of selected SNMP operations/sec requested to be performed by the SNMP agent on the selected node(s).	MsRgStandMgmtRepB MsRgUIMgrB ManagementFramework
C-MSS-92220	The MSS Report Generation Service shall be capable of generating a Site Host Resource Utilization Report indicating minimum/average/maximum measured percent usage of host CPU and memory resources and disk reads and writes over the report interval.	MsRgUIMgrB ManagementFramework

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-92230	The MSS Report Generation Service shall be capable of generating a SMC Host Resource Utilization Report indicating minimum/average/maximum measured percent usage of SMC host CPU and memory resources and disk reads and writes over the report interval.	ManagementFramework MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92240	The MSS Report Generation Service shall be capable of generating a Disk Space Report which lists the file system space available on a selected managed host node.	ManagementFramework MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92250	The MSS Report Generation Service shall be capable of generating a User Service Performance Report containing summary and detailed analysis of user feedback including: a. User information b. Type of transaction c. Satisfaction statistics d. User recommendations e. SMC recommendations	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92260	The MSS Report Generation Service shall be capable of generating a Data Distribution Performance Report listing time a request received, assigned, processed, verified, and delivered and variances from nominal.	MsRgUIMgrB MsRgRepWriterB MsRgStandMgmtRepB
C-MSS-92270	The MSS Report Generation Service shall be capable of generating a Media Distribution Profile Report containing the statistical distribution of routine and user-requested products by electronic means and physical media type over the reporting period.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92280	The MSS Report Generation Service shall be capable of generating a Data Orders Tracking Summary Report containing summary statistics on product order request dispositions over the reporting period.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92290	The MSS Report Generation Service shall be capable of generating a Data Products Tracking Summary Report containing statistics on distribution of dataset orders by dataset type.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92300	The MSS Report Generation Service shall be capable of generating a Returned Product Summary Report containing summary list of product returns with reason, cost, site action, and current status.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92310	The MSS Report Generation Service shall be capable of generating a Fault Management Report containing summary and detailed information on fault management of ground resources including: a. Fault type and description b. Time of fault occurrence c. Effect of fault on system d. Status of fault resolution e. Fault statistics	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB

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<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-92320	The MSS Report Generation Service shall be capable of generating a Trouble Status Report containing statistics on the number of trouble tickets opened, closed, and in work at a site and the average time to close a trouble ticket over the reporting period.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92330	The MSS Report Generation Service shall be capable of generating an Ethernet Errors Report graphically depicting Ethernet error statistics for a selected node in real-time.	MsRgUIMgrB MsRgStandMgmtRepB ManagementFramework
C-MSS-92340	The MSS Report Generation Service shall be capable of generating an SNMP Errors report graphically depicting SNMP error statistics in real-time for the selected network nodes.	MsRgUIMgrB ManagementFramework MsRgStandMgmtRepB
C-MSS-92350	The MSS Report Generation Service shall be capable of generating an SNMP Authentication Failures Report listing the management systems that caused an authentication failure on the operator selected node(s).	MsRgStandMgmtRepB MsRgUIMgrB ManagementFramework
C-MSS-92360	The MSS Report Generation Service shall be capable of generating an SNMP Event Log Report containing a chronological list of SNMP events which occurred over the report interval for the selected node(s).	MsRgStandMgmtRepB MsRgUIMgrB ManagementFramework
C-MSS-92370	The MSS Report Generation Service shall be capable of generating a Site Host Errors Report containing a statistical summary of the types of errors logged at each host at a site over the reporting period.	MsRgStandMgmtRepB MsRgUIMgrB ManagementFramework
C-MSS-92380	The MSS Report Generation Service shall be capable of generating an EMC Host Errors Report containing a statistical summary of the types of errors logged at each site over the reporting period.	MsRgStandMgmtRepB MsRgUIMgrB ManagementFramework
C-MSS-92390	The MSS Report Generation Service shall be capable of generating a Ground Resource Availability Audit Report itemizing the occurrence of each resource outage, the reason for the outage, the duration, and the availability over the report interval.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92400	The MSS Report Generation Service shall be capable of generating a Data Accountability Audit Report tracing a data item's status changes/ accesses over the reporting interval.	MsRgUIMgrB MsRgStandMgmtRepB MsRgRepWriterB
C-MSS-92410	The MSS Report Generation Service shall be capable of generating a Pending Service Request Audit Report tracing processing events for requests currently in-progress.	MsRgStandMgmtRepB MsRgUIMgrB MsRgRepWriterB
C-MSS-92420	The MSS Report Generation Service shall be capable of generating a User Activity Audit Report tracing a user's activity during a logon including products requested and files accessed.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB

**Table A-1. Requirements Trace (80 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-92430	The MSS Report Generation Service shall be capable of generating a Security Audit Report.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92440	The MSS Report Generation Service shall be capable of generating a User Characterization Report containing user statistical summary information on number of new/ repeat accesses and summary information by product interest, mode of access, and affiliation.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92450	The MSS Report Generation Service shall be capable of generating a System Access Profile Report containing statistics on distribution of user accesses by system service type over the selected reporting interval.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92460	The MSS Report Generation Service shall be capable of generating a Utilization of User Services Personnel Summary Report depicting the distribution of user services requests by request type and method of contact over the report interval.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92470	The MSS Report Generation Service shall be capable of generating a Storage Management Activity Report containing a list of storage management events for the selected start/stop time, intermediate operation, request ID, and staging resource.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92480	The MSS Report Generation Service shall be capable of generating a Storage Management Inventory Update Report containing the log of storage management inventory update events for the selected reporting period.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92490	The MSS Report Generation Service shall be capable of generating an Ingest History Report containing the log of ingest events selected by start/stop time, external data provider, data type identifier, and request status.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92500	The MSS Report Generation Service shall be capable of generating an Ingest Error Report containing the log of ingest error events for the reporting period.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92510	The MSS Report Generation Service shall be capable of generating a Processing Log Report containing the log of product processing events selected by start/stop time, data type identifier, and processing status.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92520	The MSS Report Generation Service shall be capable of generating a Production and Data Processing Request Status Report containing the list of pending production and user-requested product data processing requests.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92530	The MSS Report Generation Service shall be capable of generating a Planning Workload and Processing Turn-Around Report.	MsRgUIMgrB MsRgRepWriterB MsRgStandMgmtRepB



**Table A-1. Requirements Trace (81 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-92540	The MSS Report Generation Service shall be capable of generating a Planning Management Report.	MsRgUIMgrB MsRgRepWriterB MsRgStandMgmtRepB
C-MSS-92550	The MSS Report Generation Service shall be capable of generating an Account Authorization Report containing authorized resource usage and current balance by user/ group.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92560	The MSS Report Generation Service shall be capable of generating a Service Cost Schedule Report containing resource usage cost by service offered.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92570	The MSS Report Generation Service shall be capable of generating a Standard Product Cost Schedule Report containing end to end cost accounting information by standard product.	MsRgStandMgmtRepB MsRgRepWriterB MsRgUIMgrB
C-MSS-92580	The MSS Report Generation Service shall be capable of generating an Accounts Payable Report by user/ group	MsRgStandMgmtRepB MsRgUIMgrB MsBaBAASB MsRgRepWriterB
C-MSS-92590	The MSS Report Generation Service shall be capable of generating an Accounts Receivable Report by user/group	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB MsBaBAASB
C-MSS-92600	The MSS Report Generation Service shall be capable of generating a Functional Allocation Report containing current assignment of: a. standard product generation/ storage responsibility to a segment/ element b. assignment of science instrument support to an ICC	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92610	The MSS Report Generation Service shall be capable of generating a Configuration Status Report noting the operational status of all H/W, system S/W and science S/W with a reason why an item is not currently operational	MsRgUIMgrB BaselineManager MsRgStandMgmtRepB
C-MSS-92620	The MSS Report Generation Service shall be capable of generating a System Information Report for a selected managed object containing name, description, contact person, location, and system object identification.	MsRgUIMgrB BaselineManager MsRgStandMgmtRepB
C-MSS-92630	The MSS Report Generation Service shall be capable of generating an SNMP Event Notification report identifying the IP address(es) of the management system(s) to which the selected node is configured to send SNMP events.	MsRgStandMgmtRepB MsRgUIMgrB BaselineManager
C-MSS-92640	The MSS Report Generation Service shall be capable of generating an Indentured Level of Assembly List Report for all managed configuration items (CIs).	MsRgStandMgmtRepB MsRgUIMgrB BaselineManager

**Table A-1. Requirements Trace (82 of 82)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text</b>	<b>Object Class, CSC, or CI</b>
C-MSS-92650	The MSS Report Generation Service shall be capable of generating a Document Configuration Status Report containing the identity and status of documents associated with ECS resources.	MsRgUIMgrB MsRgStandMgmtRepB BaselineManager
C-MSS-92660	The MSS report generation service shall be capable of generating a System Configuration Tracking Report noting the migration of upgrades into the operational environment.	MsRgUIMgrB BaselineManager MsRgStandMgmtRepB
C-MSS-92670	The MSS Report Generation Service shall be capable of generating a Maintenance Schedule Report on H/W, system S/W and science S/W indicating the type of maintenance (i.e, routine, non-routine and upgrade)	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB ILMMgrB
C-MSS-92680	The MSS Report Generation Service shall be capable of generating a Training Program Report containing a. Training programs b. Training schedules c. Training course contents d. Training course locations e. Training attendees	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92690	The MSS Report Generation Service shall be capable of generating an Inventory Status Report containing summary and detailed status information on H/W, system S/W and science S/W and listing spares and consumables status at sites.	MsRgStandMgmtRepB MsRgUIMgrB MsMILiReportGeneratorB
C-MSS-92700	The MSS Report Generation Service shall be capable of generating a Security Compromise Report listing occurrences of login failures, unauthorized accesses, breakins, viruses and worms indicating time, cause, impact, resolution status, and results of security compromise risk analysis.	MsRgStandMgmtRepB MsRgUIMgrB MsRgRepWriterB
C-MSS-92710	The MSS Report Generation Service shall be capable of generating a Security Compromise Statistics Report containing cumulative frequency of violation occurrence statistics by type, site, day of week, and successful/failure.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB
C-MSS-92720	The MSS Report Generation Service shall be capable of generating a Virus Detection Report containing statistics on detected viruses/worms in the selected network nodes and actions taken.	MsRgRepWriterB MsRgStandMgmtRepB MsRgUIMgrB

Table A-2 identifies proposed/pending requirements changes which have not been approved and/or were not yet in the RELB\_CDR\_030196 version of the requirements database.

**Table A-2 Intended Changes to CDR Requirements Baseline (1 of 13)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text Intended Change</b>	<b>Reason for Change</b>	<b>Object Class, CSC, or CI</b>
C-MSS-18042 new	The MSS MDA shall have the capability to distinguish MSS log file records according to mode identifier.	New. Ensures data separation. Included Rel A participation to minimize code breakage	MCI
C-MSS-18044 new	The MSS MDA shall support a separate management database for each active mode.	New. Ensures data separation. Included Rel A participation to minimize code breakage	MCI
C-MSS-18046 new	The MSS MDA shall transfer MSS log file records to the appropriate management database based on the event's mode.	New. Ensures data separation. Included Rel A participation to minimize code breakage	MCI
C-MSS-18048 new	The MSS MDA shall transfer non-mode specific MSS log file records to all mode specific management databases.	New. Ensures data separation. Included Rel A participation to minimize code breakage	MCI
C-MSS-36012 new	The MSS MACI shall have the capability to obtain the mode identifier of managed application.	New. Enables management framework to distinguish applications based on mode. Included Rel A participation to minimize code breakage	MACI
C-MSS-36014 new	The MSS MACI shall incorporate the mode identifier into all metrics collected.	New. Enables management framework to distinguish application data based on mode. Included Rel A participation to minimize code breakage	MACI
C-MSS-36016 new	The MSS MACI shall be able to distinguish managed applications based on mode.	New. Enables management framework to distinguish applications based on mode. Included Rel A participation to minimize code breakage	MACI

**Table A-2 Intended Changes to CDR Requirements Baseline (2 of 13)**

L4 Rqmt ID	L4 Requirement Text Intended Change	Reason for Change	Object Class, CSC, or CI
C-MSS-42000	The MSS Software Distribution Service shall maintain use version-controlled repositories for toolkit software, software upgrades, and documentation software packages.	Unnecessary text	MLCI
C-MSS-42020	The MSS Software Distribution Service shall provide the CSS Bulletin Board Service access to the toolkit repository/information.	Will not be bulletin board. Will be DDSRV	MLCI
C-MSS-42035 New	The MSS Software Distribution Service shall receive version-controlled software packages from the Baseline Manager Service for distribution.	New	MLCI
C-MSS-42040	The MSS Software Distribution Service shall schedule automatic and operator-assisted distribution of software packages.	Duplicate	MLCI
C-MSS-42045	The MSS Software Distribution Service shall interface with the MSS Scheduling Service.	Duplicate	MLCI
C-MSS-42050 new	The MSS Software Distribution Service shall make toolkit software and documentation available for automated downloading.	New	MLCI
C-MSS-42055 new	The MSS Software Distribution Service shall make toolkit software and documentation available for automated downloading.	New L-4	MLCI
C-MSS-42060	The MSS Software Distribution Service shall determine send software packages to operator-determined destinations from stored lists as well as via interactive input.	Previously eluded that software package would determine the distribution, not that the operator would	MLCI
C-MSS-42070	The MSS Software Distribution Service shall "push" software packages from a central distribution point/depot to remote target platforms (servers and workstations).	Unnecessary text	MLCI
C-MSS-42210	The MSS Software Distribution Service will have a routine for setting the configuration for software releases that are distributed and installed. shall allow the software packages to have properties that can be uniquely defined by the operator.	Poorly worded	MLCI

**Table A-2 Intended Changes to CDR Requirements Baseline (3 of 13)**

L4 Rqmt ID	L4 Requirement Text Intended Change	Reason for Change	Object Class, CSC, or CI
C-MSS-42220	The MSS License Management Service shall maintain information on product identification, licensing provisions, numbers and types of users, and other information to manage the license.	Incomplete text	MLCI
C-MSS-42250	The MSS License Management Service shall meter use of software license	Added clarification text	MLCI
C-MSS-42270	The MSS License Management Service shall notify the site license administrator when significant license metering events occur.	Clarify	MLCI
C-MSS-42280	The MSS License Management Service shall log significant license management events, as determined by system/local policy.	Inaccurate	MLCI
C-MSS-42290	The MSS License Management Service shall compile license utilization statistics.	Clarify	MLCI
C-MSS-42300	The MSS License Management Service shall report license utilization statistics.	Clarify	MLCI
C-MSS-45020	The MSS Logistics Management Application Service at the SMC shall provide the capability to produce individual site or multi-site consolidated sites spare related reports based on operator entered criteria.	Poorly worded	MLCI
C-MSS-45030	The MSS Logistics Management Application Service shall provide the capability to input, store, update, and view/print information concerning site spares.	Clarify	MLCI
C-MSS-45070	The MSS Logistics Management Application Service at the SMC shall provide the capability to generate individual site or multi-site consolidated sites spare parts reports based on operator entered criteria.	Poorly worded	MLCI
C-MSS-45100 new	The MSS Logistics Management Application Service at the Service shall provide the capability to retrieve specified spare parts data and make available for use by statistical analysis applications.		MLCI

**Table A-2 Intended Changes to CDR Requirements Baseline (4 of 13)**

L4 Rqmt ID	L4 Requirement Text Intended Change	Reason for Change	Object Class, CSC, or CI
C-MSS-45110 new	The MSS Logistics Management Application Service shall provide the capability to generate site spare parts related reports based on operator entered criteria.		MLCI
C-MSS-45130	The MSS Logistics Management Application Service at the SMC shall provide the capability to generate individual site or multi-site consolidated sites consumable items reports based on operator entered criteria.	Poorly worded	MLCI
C-MSS-45190	The MSS Logistics Management Application Service at the SMC shall provide the capability to generate individual site or multi-site consolidated sites consumable items on-order reports based on operator entered criteria.	Poorly worded	MLCI
C-MSS-45224	The MSS Logistics Management Application Service shall interface with the MSS Scheduling Service.	Innaccurate	MLCI
C-MSS-45230	The MSS Inventory/Logistics Management Application Service at the SMC shall maintain an on-line, system-wide catalog of non-expendable and consumable ECS resources.	added clarification text	MLCI
C-MSS-45240	The MSS Inventory Management Application Service at the SMC shall provide consolidated, system-wide views of ECS sites' inventory data.	added clarification text	MLCI
C-MSS-45330	The MSS Inventory Management Application Service shall have the capability to generate inventory reports.provide inventory records and resource attribute data to the MSS Report Generation Service.	Unnecessary text	MLCI
C-MSS-45360	The MSS InventoryLogistics Management Application Service shall generate chronological reports of logged events corresponding to M&O staff-selectable: time frames; operation types; userids; and hosts.	Innaccurate	MLCI

**Table A-2 Intended Changes to CDR Requirements Baseline (5 of 13)**

L4 Rqmt ID	L4 Requirement Text Intended Change	Reason for Change	Object Class, CSC, or CI
C-MSS-50000	The MSS Maintenance Management Application Service at the SMC shall provide the capability to view specified site's PM information. (maintenance service required, service interval, parts required, date PM performed).	Unnecessary text, added clarification text	MLCI
C-MSS-50030	The MSS Maintenance Management Application Service at the SMC shall provide the capability to receive and use specified site maintenance data in trends analysis applications.	added clarification text	MLCI
C-MSS-50060	The MSS Maintenance Management Application Service shall provide the capability to input, store, maintain, and view/print corrective maintenance (CM) service performed (CMP) information.	Unnecessary text	MLCI
C-MSS-50100	The MSS Maintenance Management Application Service shall log the following information for operations performed and detected errors: operation type; userid of initiator; date-time stamp; and host name.	Incorrect, capability provided via TT	MLCI
C-MSS-50110	The MSS Maintenance Management Application Service shall generate chronological reports of logged events associated with user selectable: time frames; operation types; userids; and hosts.	Incorrect, capability provided via TT	MLCI
C-MSS-50130	The MSS Maintenance Management Application Service at the SMC shall provide off-site maintenance reports based on operator entered criteria.	Added clarification text	MLCI
C-MSS-50200	The MSS Maintenance Management Application Service shall provide the capability to generate off-site maintenance reports based on operator entered criteria.	Added clarification text	MLCI
C-MSS-50235	The MSS Maintenance Management Application Service shall interface with the MSS Scheduling Service.	No such service as MSS Scheduling Service	MLCI
C-MSS-51010	The MSS Training Management Application Service at the SMC shall provide the capability to input, store, maintain, and view/print training information.	Clarify	MLCI
C-MSS-51020	The MSS Training Management Application Service at the SMC shall provide the capability to input, store, maintain, and view/print training records information.	Clarify	MLCI

**Table A-2 Intended Changes to CDR Requirements Baseline (6 of 13)**

L4 Rqmt ID	L4 Requirement Text Intended Change	Reason for Change	Object Class, CSC, or CI
C-MSS-51030	The MSS Training Management Application Service shall provide the capability to input, store, maintain, and view/print site training requirements information.	Unnecessary text	MLCI
C-MSS-51040	The MSS Training Management Application Service shall make site training requirements information available for review by the SMC training staff.	Unnecessary text	MLCI
C-MSS-51050 new	The MSS Training Management Application Service shall provide the capability to input, store, maintain, and view/print site personnel training record information.		MLCI
C-MSS-51060	The MSS Training Management Application Service at the SMC shall provide the capability to prepare, update, store, and view/print, and disseminate training courses descriptions, course prerequisites, resource requirements, and schedules information.	Poorly worded	MLCI
C-MSS-52040	The MSS Policy and Procedures Management Application Service shall provide a bulletin board service with information on ECS status, events and news,	Will not be Policy&Procedure L-4. Bulletin Board Service will provide capability.	MLCI
C-MSS-52050	The MSS Policy and Procedures Management Application Service shall maintain a bulletin board service with information on ECS, status, events and news,	Will not be Policy&Procedure L-4. Bulletin Board Service will provide capability.	MLCI
C-MSS-56010 New	The MSS Mode Management Service shall support a production mode capability	4.11.3, Added Rel A to minimize code breakage	MCI
C-MSS-56020 New	The MSS Mode Management Service shall support a test mode capability	4.11.3, Added Rel A to minimize code breakage	MCI
C-MSS-56030 New	The MSS Mode Management Service shall support a training mode capability	4.11.3, Added Rel A to minimize code breakage	MCI
C-MSS-56040 New	The MSS Performance Management Application Service shall have the capability to monitor each mode for performance statistics.	4.11.3, Included Rel A participation to minimize code breakage	MCI



**Table A-2 Intended Changes to CDR Requirements Baseline (7 of 13)**

L4 Rqmt ID	L4 Requirement Text Intended Change	Reason for Change	Object Class, CSC, or CI
C-MSS-56042 New	The MSS Performance Management Application Service shall provide the capability to distinguish performance metrics between different modes.	New. Expanded base performance requirement to incorporate collection of metrics. Included Rel A participation to minimize code breakage	MCI
C-MSS-56044 New	The MSS Performance Management Application Service shall maintain performance statistics for a given mode.	New. Expanded base performance requirement to maintain maintain mode specific performance data. Included Rel A participation to minimize code breakage	MCI
C-MSS-56050 New	The MSS Fault Management Service shall provide fault detection and isolation capabilities for each mode.	4.11.3, Included Rel A participation to minimize code breakage	MCI
C-MSS-56055 New	The MSS Fault Management Service shall provide the capability to distinguish faults between different modes.	New. Expanded base fault requirement to incorporate mode distinction. Included Rel A participation to minimize code breakage	MCI
C-MSS-56060 New	The MSS Fault Management Service shall maintain fault statistics for each mode .	4.11.3, Included Rel A participation to minimize code breakage	MCI
C-MSS-56070	The MSS Mode Management Service shall be capable of executing a test mode simultaneously with the production mode	4.11.3, Added Rel A to minimize code breakage	MCI
C-MSS-56080	The MSS Mode Management Service shall be capable of executing a training mode simultaneously with the production mode.	4.11.3, Added Rel A to minimize code breakage	MCI
C-MSS-56082 New	The MSS Mode Management Service shall provide the capability to initiate a new mode of execution.	New. Establishes initiation responsibility. Included Rel A participation to minimize code breakage	MCI

**Table A-2 Intended Changes to CDR Requirements Baseline (8 of 13)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text Intended Change</b>	<b>Reason for Change</b>	<b>Object Class, CSC, or CI</b>
C-MSS-56084 New	The MSS Mode Management Service shall provide the capability to control life cycle activities within each given mode.	New. Establishes specific mode control capabilities. Included Rel A participation to minimize code breakage	MCI
C-MSS-56086 New	The MSS Mode Management Service shall have the capability to provide a mode identifier to initialize ECS applications.	New. Enables mode distinction. Included Rel A participation to minimize code breakage	MCI
C-MSS-56088 New	The MSS Mode Management Service shall provide a GUI for mode initiation.	New. Operator interface is required for mode initiation. Included Rel A participation to minimize code breakage	MCI
C-MSS-56090 New	The MSS Mode Management Service shall provide a GUI for mode monitoring.	New. Operator interface is required for mode monitoring. Included Rel A participation to minimize code breakage	MCI
C-MSS-56092 New	The MSS Mode Management Service shall provide a GUI for mode control.	New. Operator interface is required for mode control. Included Rel A participation to minimize code breakage	MCI
C-MSS-56094 New	The MSS Mode Management Service shall not limit the number of concurrently executing non-production modes.	New. Clarifies a design directive. Included Rel A participation to minimize code breakage	MCI
C-MSS-56095 New	The MSS Mode Management Service shall support no more than one production mode.	New. Ensures data integrity and data consistency. Included Rel A participation to minimize code breakage	MCI
C-MSS-56096 New	The MSS Mode Management Service shall have the capability to provide a simulated time value.	New. Added to support testing capabilities. Included Rel A participation to minimize code breakage	MCI

**Table A-2 Intended Changes to CDR Requirements Baseline (9 of 13)**

L4 Rqmt ID	L4 Requirement Text Intended Change	Reason for Change	Object Class, CSC, or CI
C-MSS-56098 New	The MSS Management Framework shall provide a mode specific view of ECS applications for any active mode.	New. Enables a separate mode specific operator view. Included Rel A participation to minimize code breakage	MCI
C-MSS-56100 new	The MSS Mode Management Service shall have the capability to provide a simulated time value.		MCI
C-MSS-56102 new	The MSS Management Framework shall provide a mode specific view of ECS applications for any active mode.		MCI
C-MSS-60012 new	The MSS Fault Management Service shall provide fault detection and isolation capabilities for each mode.		MCI
C-MSS-60014 new	The MSS Fault Management Service shall provide the capability to distinguish faults between different modes.	New. Expanded base fault requirement to incorporate mode distinction.	MCI
C-MSS-60016 new	The MSS Fault Management Service shall maintain fault statistics for each mode .		MCI
C-MSS-60400 New	The MSS Fault Management Application Service shall support, maintain, and update system fault management policies and procedures, to include: a. Fault Identification b. Fault priorities c. Recovery or corrective actions	New requirement to satisfy L3 requirement(s). L-3 interpretation not required	MCI
C-MSS-66002 new	The MSS Performance Management Application Service shall have the capability to monitor each mode for performance statistics.		MCI
C-MSS-66004 new	The MSS Performance Management Application Service shall provide the capability to distinguish performance metrics between different modes.		MCI
C-MSS-66006 new	The MSS Performance Management Application Service shall maintain performance statistics for a given mode.	New. Expanded base performance requirement to maintain maintain mode specific performance data.	MCI

**Table A-2 Intended Changes to CDR Requirements Baseline (10 of 13)**

<b>L4 Rqmt ID</b>	<b>L4 Requirement Text Intended Change</b>	<b>Reason for Change</b>	<b>Object Class, CSC, or CI</b>
C-MSS-66181 New	The MSS Performance Management Application Service shall have the capability to capture and save histories of system errors and events for system analysis and trending.	New requirement to satisfy L3 requirement(s)	MCI
C-MSS-66182 New	The MSS Performance Management Application Service shall have the capability to capture and save histories of operational status, performance of resources and maintenance activities for system analysis and trending.	New requirement to satisfy L3 requirement(s)	MCI
C-MSS-66183 New	The MSS Performance Management Application Service shall have the capability to monitor the performance of ECS relational and object oriented database servers.	New requirement to satisfy L3 requirement(s). L-3 Interpretation not required.	MCI
C-MSS-69100 New	The MSS Performance Trending Service shall have the capability to save and retrieve data from the management database for long and short term trending.	New requirement to satisfy L3 requirement(s)	MCI
C-MSS-69105 New	The MSS Performance Trending Service shall have the capability to generate the following types of trend analysis: a. time series analysis b. analysis of variance including multiple analysis of variance c. correlation analysis d. regression analysis including non-linear and multiple regression	New requirement to satisfy L3 requirement(s)	MCI
C-MSS-69110 New	The MSS Performance Trending Service shall provide the capability to select parameters for trend analysis.	New requirement to satisfy L3 requirement(s)	MCI
C-MSS-69120 New	The MSS Performance Trending Service shall have the capability to output trend data in textual and graphical formats.	New requirement to satisfy L3 requirement(s)	MCI
C-MSS-69150 New	The MSS Performance Trending Service shall have the capability to perform short and long term trending by system, site and element.	New requirement to satisfy L3 requirement(s)	MCI
C-MSS-78700 new	The MSS BAAS Accounts Payable (AP) function shall maintain vendor/payee master files.		MCI

**Table A-2 Intended Changes to CDR Requirements Baseline (11 of 13)**

L4 Rqmt ID	L4 Requirement Text Intended Change	Reason for Change	Object Class, CSC, or CI
C-MSS-78710 new	The MSS BAAS Accounts Payable (AP) function shall provide the capability to update vendor/payee master files.		MCI
C-MSS-78720 new	The MSS BAAS Accounts Payable (AP) function shall maintain payee account balances.		MCI
C-MSS-78730 new	The MSS BAAS Accounts Payable (AP) function shall maintain payee account information to include: a. payee bank account information. b. payee taxpayer identification number and payee type. c. contract terms (e.g., net terms, terms that use discounting, end-of-month terms).		MCI
C-MSS-78740 new	The MSS BAAS Accounts Payable (AP) function shall provide the capability to establish "pre-paid" accounts.		MCI
C-MSS-78750 new	The MSS BAAS Accounts Payable (AP) function shall provide the capability to establish temporary accounts (e.g., when issuing a refund to a user account).		MCI
C-MSS-78760 new	The MSS BAAS Accounts Payable (AP) function shall support batch entry of invoices.		MCI
C-MSS-78770 new	The MSS BAAS Accounts Payable (AP) function shall support matching of vendor invoices to purchase order line items.		MCI
C-MSS-78780 new	The MSS BAAS Accounts Payable (AP) function shall support matching of vendor invoices to inventory receiving reports.		MCI
C-MSS-78790 new	The MSS BAAS Accounts Payable (AP) function shall provide the capability to indicate discrepancies between quantity, type, and cost of goods ordered, received, and invoiced.		MCI
C-MSS-78810 new	The MSS BAAS Accounts Payable (AP) function shall provide on-line voucher approval by M&O staff.		MCI
C-MSS-78820 new	The MSS BAAS Accounts Payable (AP) function shall provide re-routing capabilities for vouchers which are not approved the first time.		MCI

**Table A-2 Intended Changes to CDR Requirements Baseline (12 of 13)**

L4 Rqmt ID	L4 Requirement Text Intended Change	Reason for Change	Object Class, CSC, or CI
C-MSS-78830 new	The MSS BAAS Accounts Payable (AP) function shall provide the ability to suspend a voucher from further processing.		MCI
C-MSS-78840 new	The MSS BAAS Accounts Payable (AP) function shall provide the capability to void a voucher		MCI
C-MSS-78850 new	The MSS BAAS Accounts Payable (AP) function shall allow M&O staff to break up a voucher into multiple payments when charges on invoice have different due dates.		MCI
C-MSS-78860 new	The MSS BAAS Accounts Payable (AP) function shall provide the capability to combine several vouchers for the same vendor into a single payment.		MCI
C-MSS-78870 new	The MSS BAAS Accounts Payable (AP) function shall provide the capability to post payments to "pre-paid" accounts automatically.		MCI
C-MSS-78880 new	The MSS BAAS Accounts Payable (AP) function shall assign a status code to each voucher to track its progress through the system.		MCI
C-MSS-78900 new	The MSS BAAS Accounts Payable (AP) function shall allow an on-line query and searching of the voucher history file.		MCI
C-MSS-78910 new	The MSS BAAS Accounts Payable (AP) function shall allow orders to be re-opened by M&O staff after final payment has been made.		MCI
C-MSS-78920 new	The MSS BAAS Accounts Payable (AP) function shall have the capability to access purchase order line items information from the ECS Management Database to match to vendor invoices before authorizing payment of invoices.		MCI
C-MSS-78930 new	The MSS BAAS Accounts Payable (AP) function shall have the capability to access inventory receiving reports information from the ECS Management Database to match to vendor invoices before authorizing payment of invoices.		MCI

**Table A-2 Intended Changes to CDR Requirements Baseline (13 of 13)**

L4 Rqmt ID	L4 Requirement Text Intended Change	Reason for Change	Object Class, CSC, or CI
C-MSS-78940 new	The MSS BAAS Accounts Payable (AP) function shall transmit vendor invoice payment requests and user refund payment requests to a NASA accounting system		MCI
C-MSS-78950 new	The MSS BAAS Accounts Payable (AP) function shall prepare detailed and summary listings of amounts payable for a specific period of time.		MCI
C-MSS-78960 new	The MSS BAAS Accounts Payable (AP) function shall provide reporting of all unreconciled and outstanding items.		MCI
C-MSS-78970 new	The MSS BAAS Accounts Payable (AP) function shall provide vendor master list.		MCI
C-MSS-79915 New	The MSS BAAS Cost Accounting function shall be able to collect resource unit costs by mode.	New. Required to maintain mode specific costs.	MCI
C-MSS-92015 new	The MSS Report Generation Service shall be able to create mode specific reports.	New. To establish the capability to generate mode specific reports.	MCI
C-MSS-92710 New	The MSS Report Generation Service shall be able to create mode specific reports.	New. To establish the capability to generate mode specific reports.	MCI
new	The MSS Management Data Access Service shall have the capability to chain management events to their ancestor management events.	new L4 - adding event chaining capability	MsMdProcessEvent
new	The MSS Management Data Access Service event chaining tool shall provide user access via the MDA user interface.	new L4 - adding event chaining capability	MsMdProcessEvent

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